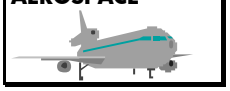
Nexans

Aircraft
Wires and Cables



Introduction

Since 1938 and the creation of Filotex in Draveil (France), Nexans has been a driving force in the world of aerospace cables. Today, Nexans is proud to be able to offer a complete range of aircraft wires and cables – which is also the largest in the industry.

From high temperature cables to low-loss coaxial cables and from data-buses for In Flight Entertainment Systems to fire resistant engine wires, Nexans covers every aircraft electrical application with a range so wide that you will be able to rationalize your purchasing policy.

It goes without saying that our only concern is to provide you with the cable solution you need and –thanks to a combined expertise in the USA and Europe in technologies as diverse as extruded cables (e.g. irradiated ETFE) and tape wrapped cables (eg. Polyimide/PTFE composites) – we can do it.

About Nexans

Nexans is the worldwide leader in the cable industry. The Group brings an extensive range of advanced copper and optical fiber cable solutions to the infrastructure, industry and building markets.

Nexans cables and cable systems can be found in every area of people's lives, from telecommunications and energy networks to aeronautics, aerospace, building, automobile, petrochemicals, medical applications, etc.

Operating in 28 countries, Nexans employs 17 150 people and had sales of euros 4.3 billion in 2002. Nexans is listed on the Paris stock exchange.

More information at www.nexans.com

140 – 146 rue E. Delacroix / BP 1
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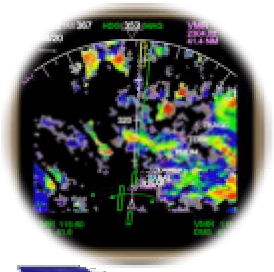
A comprehensive offer

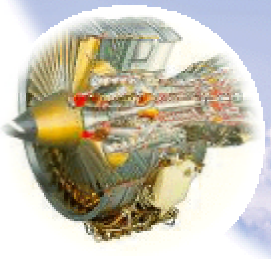
Coxial cables
for high frequency transmission (radio/radar, anti-collision



Hook-up wires & data bus cables
in passenger area (in flight entertainment

Hook-up wires
in wings

Power cables
for power supply unit



Fire resistant cables
in engine (core and nacelle)

Special cables
in engine environment (connections to the engine)

Hook-up
for landing

Photos : © Airbus Industrie

Content

Catalogue – Issue 2 – 01/10/2003

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Guideline
for aerospace cables

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Nexans

Hook-up wires for Civil, Military Aircraft and Helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specifications	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
JN 1007	• Arc tracking resistant, Flexible light weight wires.	•					•	•				**19**
JN 1018	• Arc tracking resistant, • Flexible light weight wires.	•					•		•		•	**21**
JN 1019	• Arc tracking resistant, • Flexible light weight wires.	•					•	•		•	•	**23**
JN 1026	• Arc tracking resistant, • Flexible light weight wires with EMI protection.	•					•	•		•	•	**25**
VG 95218-20 type H (FX 5301)	• Arc tracking resistant, • Flexible light weight wires, • Silver plated conductors.	•					•	•				**29**
VG 95218-22 type E VG 95218-23 type D (FX 5303)	• Arc tracking resistant, • Single core and multicore.	•					•	•	•	•	•	**31**
ABS 0949 AD AWG 24 to 4	• Arc tracking resistant, • Light weight wires, • Nickel copper clad aluminium.		•				•	•				**33**
ABS 0949 AD AWG 3 to 000	• Arc tracking resistant, • Light weight wires, • Nickel aluminium.		•				•	•				**35**
ABS 1354 ADA, ADB, ADC, ADD	• Arc tracking resistant, • Light weight wires, • Non UV markable, • Nickel copper clad aluminium, • Single core and multicore.		•				•	•	•			**37**
ABS 1356	• Arc tracking resistant, • Single core and multicore, • UV laser printable, • Nickel copper clad aluminium.		•				•	•	•	•	•	**41**
BAS 8710	• Cable for airframe, general purpose.			•				•				**43**
BAS 8711, 8712, 8713	• Cable for airframe, general purpose.			•				•	•	•	•	**45**
ASN-E0261 CF / EN 2266	• Flexible light weight wires, • Polyimide insulation.				•			•				**47**
ASN-E0264 PF ASN-E0266 QF ASN-E0268 RF / EN 2266	• Flexible light weight wires, • Polyimide insulation.				•				•			**49**
ASN-E0270 SJ ASN-E0272 TK ASN-E0274 UD / EN 2713	• Flexible light weight cables, • Polyimide insulation, • UV markable jacket, • Single core and multicore.				•			•	•	•	•	**51**
PFG, QFG, RFG	• Flexible light weight wires, • Polyimide insulation, • UV markable jacket.				•				•		•	**53**

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Nexans

Hook-up wires for Civil, Military Aircraft and Helicopters

Voltage rating: 600 Volts RMS / Maximum operating frequency: 2000 Hz

Specifications	Description	Maximum operating temperature					Arc tracking resistant	Single core	Multi-core	Screened	Sheathed	Page
		150	180	210	200	260						
SJB, TKB, UDB, VLB	• Flexible light weight wires, • Polyimide insulation, • UV markable jacket, • Single core and multicore.				·			·	·	·	·	**55**
EN 2267-008A DM	• Arc tracking resistant, • UV laser printable, • Medium weight, • Composite insulation.					·	·	·				**57**
EN 2267-007 PN, QL, RK	• Arc tracking resistant, • UV laser printable, • Medium weight, • Composite insulation.					·	·		·			**59**
EN 2714-011 GJ, MH, UU, VV	• Arc tracking resistant, • UV laser printable, • Medium weight , • Composite insulation, • Single core and multicore.					·	·	·	·	·	·	**61**
EN 2267-010A DR	• Arc tracking resistant, • UV laser printable, • Light weight, • Composite insulation.					·	·	·				**63**
EN 2267-009 DRB, DRC, DRD	• UV laser printable, • Light weight, • Arc tracking resistant, • Composite insulation.					·	·		·			**65**
EN 2714-013 MLA, MLB, MLC, MLD	• UV laser printable, • Light weight, • Arc tracking resistant, • Composite insulation, • Single core and multicore.					·	·	·	·	·	·	**67**
EN 2714-014 MME, MMF, MM6	• UV laser printable, • Light weight, • Arc tracking resistant, • Composite insulation.					·	·		·	·	·	**69**
MIL-W-16878/4 to 28 **MIL-W-22759/5 to 31** **MIL-W-22759/32 to 46** **MIL-W-22759/80 to 92** **MIL-DTL-81381/7 to22**	• Aerospace composite wires (see MIL-SPEC Product Selection Catalogue)	·			·	·		·				**-**

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Cables for power transmission

Voltage rating: 600 Volts RMS

Specifications	Description	Maximum operating temperature			Screened	Sheathed	Page
		150	180	260			
BMS 13-35	Polyimide insulated aluminium wire		•		No	No	**73**
ASN-E0438 YV	Flexible nickel plated aluminium light weight wires, single core, large sizes		•		No	No	**75**
NSA 935 308 YU	Flexible aluminium light weight wires, polyamide insulation	•			No	No	**77**

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Nacelles and engines:
high temperature, fire resistant/fire proof cables

Voltage rating: 600 Volts RMS (except for ESW 1100,1101, 1102, 1700, 1701, 1702: 200 Volts)
Maximum operating frequency: 2000 Hz

Specifications	Nexans reference	Description	Maximum operating temperature				Single core	Multi-core	Screened	Sheathed	Page
			250	260	280	300 +					
VG 95218-20 type J	**FX 5400**	• Single wire, • High temperature, • General purpose.		•			•				**81**
NSA 935 131 DG / EN 2854		• Single wire, • High temperature, • General purpose.		•			•				**83**
BMS 13-58 Type 1 & Type 5		• Single wire, • High temperature, • General purpose.		•			•				**85**
2100		• Flexible cables for high ambient temperatures.	•				•				**87**
2102		• Flexible cables for high ambient temperatures, • Lighweight cables.	•				•				**89**
2103		• Flexible cables for high ambient temperatures.		•			•				**91**
1050		• Screened cables for high ambient temperatures, • Single core and multicore.	•				•	•	•	•	**93**
1052		• Screened cables for high ambient temperatures, • Single core and multicore.	•				•	•	•	•	**95**
1053		• Screened cables for high ambient temperatures, • Single core and multicore.		•			•	•	•	•	**97**
MIL W 25038/1 (QPL) (mono) (multi on request)	**TMF**	• High temperature fire resistant wires.		•			•				**99**
MIL W 25038/3 (QPL) (mono) (multi on request)	**TMF VRA-US TMF VR-US**	• High temperature fire resistant cables.		•			•				**101**
MIL W 25038/3 (QPL) (mono) (multi on request)	**FRM-A-US FRM-US**	• High temperature fire resistant cables.		•			•				**103**
MIL W 25038/3, MIL DTL 27500	**M27500A**J F + 1 N 06**	• High temperature fire resistant, • Single core and multicore.		•			•	•	•	•	**105**
MIL W 25038/3, MIL DTL 27500	**M27500A**J F + N 24**	• High temperature fire resistant shielded and jacketed cables.		•			•	•	•	•	**107**
BMS 13-55 Type 2 Class 1		• High temperature fire resistant wires.		•			•				**109**
ASN-E0437 DL / EN 2346-003		• Fire resistant wire, • Normal weight.		•			•				**111**
EN 2346-005 / DW		• Fire resistant wire, • Light weight.		•			•				**113**

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Nacelles and engines:
high temperature, fire resistant/fire proof cables

Specifications	Nexans reference	Description	Maximum operating temperature				Single core	Multi-core	Screened	Sheathed	Page
			250	260	280	300 +					
EN 4608-004 / GPA, GPB, GPC		• Fire resistant cable, • Light weight, • Single core and multicore.		·			·	·	·	·	**115**
ESW 1100-010-XXX		• Filter effect cable, • High temperature wire.		·			·				**117**
ESW 1101-+++-XXX		• Filter effect cable, • High temperature wire.		·				·			**119**
ESW 1102-+++-XXX		• Filter effect cable, • High temperature wire, • Single core and multicore.		·			·	·	·	·	**121**
ESW 1700-010-XXX		• Thermocouple, • Filter effect cable, • High temperature wire.		·			·				**123**
ESW 1701-010-XXX		• Thermocouple, • Filter effect cable, • High temperature wire.		·			·				**125**
ESW 1702-022-XXX		• Thermocouple extension, • Filter effect cable, • Twin core.		·				·	·	·	**127**
ESW 1200-010-XXX **ESW 1201-010-XXX**		• Fire resistant cable.		·			·				**129**
ESW 1202-+++-XXX **ESW 1203-+++-XXX**		• Fire resistant cable, • Single core and multicore.		·			·	·	·	·	**131**
ESW 1250-010-XXX **ESW 1251-010-XXX**		• Fireproof cable, • Single core.		·			·				**133**
ESW 1252-+++-XXX **ESW 1253-+++-XXX**		• Fireproof cable, • Single core and multicore.		·			·	·	·	·	**135**
ESW 1254-010-002		• Fireproof cable, • Single core.		·			·				**137**
ESW 1254-022-002		• Fireproof cable, • Two twisted cores.		·				·	·	·	**139**
ESW 1600-010-XXX **ESW 1601-010-XXX**		• Thermocouple, • Fire resistant cable.		·			·				**141**
ESW 1602-022-XXX		• Thermocouple, • Fire resistant cable, • Two twisted cores.		·			·		·	·	**143**
RMS 302, 322, 323, 324, 326, 327, 328, 329, 332		• Wire electric fluorocarbon insulated abrasion resistant for nacelle.		·			·	·	·	·	**145**
3000A		• Fire resistant cable.			·		·				**149**
BMS 13-67	**TMF 350-A FLEX SBJ**	• Very high temperature, • Fire resistant.				·	·	·	·	·	**151**
	ET 124585	• Very high temperature, • Fire resistant.				·	·		·	·	**153**

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Coaxial cables for high frequency transmission

For information on **KX/RG coaxial cables** and **MIL C17 specifications**, see our standard catalogue.

Specifications	Nexans reference	Description	Maximum operating temperature			Impedance		Maximum Operating frequency (MHz)	Maximum Operating voltage	Page
			150	200	250	50	75			
SP 124962	**ET 124962**	Laser UV miniature coaxial cable	•			•		3000	250	**157**
SP 124963	**ET 124963**	Laser UV miniature coaxial cable	•				•	3000	250	**159**
SP 124964	**ET 124964**	Laser UV miniature triaxial cable	•			•		3000	250	**161**
SP 124965	**ET 124965**	Laser UV miniature triaxial cable	•				•	3000	250	**163**
EN 4604-003 WZ		50 ohms coaxial cable		•		•		3000	1700	**165**
EN 4604-004 WS		50 ohms coaxial cable		•		•		3000	1300	**167**
EN 4604-005 WL		75 ohms coaxial cable		•			•	3000	900	**-**
EN 4604-006 WM		50 ohms coaxial cable		•		•		5000	750	**169**
EN 4604-007 WN		50 ohms coaxial cable		•		•		5000	1000	**171**
EN 4604-008 WD		50 ohms coaxial cable		•		•		8000	1000	**-**
PAN 6422		50 ohms coaxial cables, UV laser markable		•		•	•	1000	From 750 to 3700	**173**
ASN-E0293 XF		50 ohms coaxial cable		•		•		3000	1400	**175**
NSA 935 344 XE		50 ohms coaxial cable			•	•		3000	900	**177**

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Data bus and high speed transmission cables

Voltage rating: from 250 to 1600 Volts RMS

Specifications	Nexans reference	Description	Maximum operating temperature				Impedance (ohms)				Maximum Operating voltage	Page
			125	150	200	260	75	77	100	125		
ABS 0972 KB 24	**ET 2PC236**	100 ohms, shielded quad	•						•		-	**181**
SP 124960	**ET 124960**	Data bus cable		•				•			250	**183**
SP 124961	**ET 124961**	Data bus cable		•				•			250	**185**
SP 96770 **ASNE 0479 WJ**	**ET 96770-01** **ET 96770-02**	Data bus cable		•				•			250	**187**
PAN 6421 ZA002	**ET 65529**	Data bus cable		•				•			600	**189**
ASNE 0259 HE	**ET 63247**	Data bus cable		•						•	-	**191**
ASN-E0849 HJ 26		Twinaxial cable high immunity			•		•				600	**193**
SP 554	**ET 61333**	Data bus cable			•		•				600	**195**
SP 69899 **ASNE 0811 WY**	**ET 69899-01** **ET 69899-02**	Data bus cable			•			•			250	**197**
ABS 0386 WF	**ET 96897**	Data bus cable			•				•		1600	**199**
ASNE 0290 XM		Data bus cable			•			• (78)			600	**201**
SP 69794 **EN 3375-004-C WJ**	**ET 69794-01** **ET 69794-02**	Data bus cable			•			•			600	**203**
EN 4608-005-B 002		Data bus cable				•				• (120)	600	**205**

Special cables

Specifications	Nexans reference	Description	Maximum operating temperature		Maximum Operating voltage	Page
			200	260		
	ET 124401	Low noise screened pair cable, transmission cable		•	600	**209**
NSA 935306 YK	**ET 86891**	Low noise screened pair cable, transmission cable		•	600	**211**
MBBN 3320 YH +++	**ET 96532** **ET 96533**	Thermocouple extension. Nickel chromium/nickel aluminium		•	600	**213**
ASN-E0409 BG **ASN-E0410 SU** **ASN-E0411 TV** **ASN-E0412 VF**		Flight test wire, UV laser printable.	•		600	**215**
SATCOM CORDS		Available on request : application at 1.6 GHZ	-	-	-	**-**

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Optical cable

Maximum operating temperature: 125°C

Specifications	Nexans reference	Description	Insulation	Sheath	Page
ABS 0963-003 LF	**ET 132126**	Multimode fibre optic cable	Zero halogen copolymer, high temperature	Polymer aromatic fibre braid + zero halogen	**219**

Space cables

See Space catalogue

Maximum operating temperature: 200°C

Hook-up wires

Specifications	Nexans reference	Description	Maximum operating temperature	Single core	Multi-core	Screened	Sheathed
SP 359 3901/001	**1871 - 871**	Space cables polyimide insulated normal weight	200	•	•	•	•
SP 358 3901/002	**1872 - 872**	Space cables polyimide insulated light weight	200	•	•	•	•
SP 199 3901/013	**MTV - BTV**	Flexible space cables PTFE insulated	200	•	•	•	•
SP 773 5691	**1995 - 995**	Space cables PTFE insulated	200	•	•	•	•
SP 776 5685	**1996**	Space cables PTFE insulated	200	•			

Coaxial cables

Specifications	Nexans reference	Description	Maximum operating temperature	Impedance (ohms)	Operating voltage (volts)
SP 189 3902/001.01	**50 CIS**	Flexible space coaxial cable	200	50	900
SP 781 3902/001.02	**50 CIS DTR**	Flexible space coaxial cable	200	50	900
SP 727 3902/001.03	**50 CIS BLG**	Flexible space coaxial cable	200	50	900

These examples represent an overview of our expertise. Indeed, our development and design engineers are at your disposal to provide their experience in customising any of our products to meet your specific requirements.

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Part 1

Hook-up wires for Civil, Military Aircraft and Helicopters

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AEROSPACE

Type " JN 1007 "

Filotex®

Flexible Light Weight Wires
Unscreened and Unsheathed Single Core Types
150°C Operating Temperature Light Weight
Arc Tracking Resistant Cables

Characteristics

- Voltage rating : 600 Volts RMS
- Operating temperature : -65°C to +150°C.(Ambient + Rise)
- Operating frequency : up to 2000 Hz
- Dimensions and weight : see table on reverse of this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification

- Colours : White (Size 004 : Pale blue)
- Marking : JN1007 CH *** FR F ++
  *** = Size code
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex)
  ++ = Year of Production (i.e. 99 = 1999)

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Specifications

- EUROFIGHTER SPE-J-920-A-0061 issue KY (March 1999)
- EFA : J61.010

PRODUCT REFERENCES

JN1007
JN1018
JN1019

CONSTRUCTION

CONDUCTOR

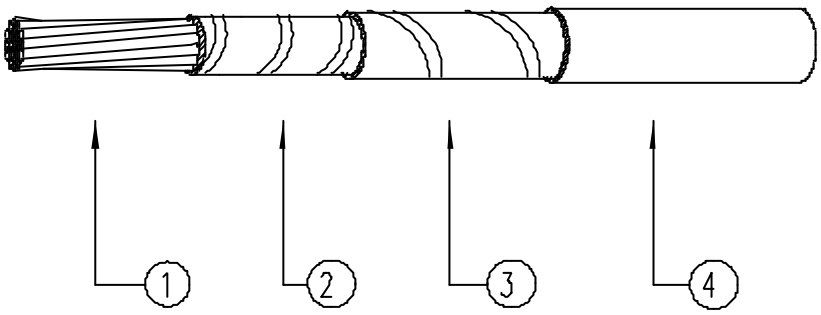
① Stranded Conductor Made up of Nickel plated Copper. Size code 002 is High strength copper alloy conductor.

INSULATION

② PTFE Tape

③ Polyimide Tape

④ UV Laser markable FEP Lacquer Top coat



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Conductor			Finished Wire			
JN 1007		Stranding (Nbr x Diam. of Strands in mm)	Diameter Mini. (mm)	Diameter Maxi. (mm)	Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter Mini. (mm)	Diameter Max. (mm)	Maximum Weight (g/m)
JN 1007 CH 002	24	19 x 0.12	0.55	0.59	114	0.93	1.03	2.75
JN 1007 CH 004	22	19 x 0.15	0.70	0.74	60	1.08	1.18	4.05
JN 1007 CH 006	20	19 x 0.20	0.94	0.99	33.20	1.30	1.41	6.70
JN 1007 CH 010	18	19 x 0.25	1.18	1.24	21.10	1.54	1.66	9.90
JN 1007 CH 012	16	19 x 0.30	1.41	1.49	14.50	1.78	1.91	13.8
JN 1007 CH 020	14	19 x 0.25	1.65	1.74	10.90	2.02	2.16	18.3
JN 1007 CH 030	12	37 x 0.32	2.12	2.22	6.80	2.47	2.62	29.0

AEROSPACE

Type " JN 1018 "

Filotex®

Flexible Light Weight Wires
Unscreened and Sheathed multicore Types
150°C Operating Temperature Light Weight
Arc Tracking Resistant Cables

Characteristics

- Voltage rating : 600 Volts RMS
- Operating temperature : -65°C to +150°C.(Ambient + Rise)
- Operating frequency : up to 2000 Hz
- Dimensions and weight : see table on reverse of this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification

- Core Colours
- Sheat colours and Marking : see table on reverse of this data sheet
  FR = Country of Origin (FR = France)

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- EUROFIGHTER SPE-J-920-A-0061 issue KY (March 1999)
- EFA : J61.014

PRODUCT REFERENCES

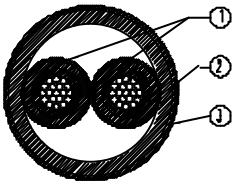
JN1018
JN1007
JN1019

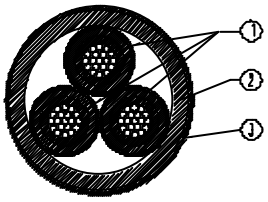
CONSTRUCTION

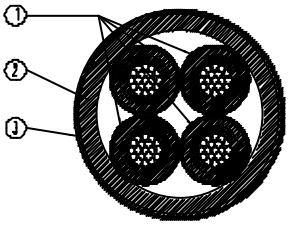
CORES
① Type JN 1007

JACKET
② Polyimide Tapes

③ UV Laser markable
FEP Lacquer Top coat







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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS JN 1018	US AWG	Nbr of Cores	Finished Cable			
			Diameter (mm)		Weight (Kg/Km)	Resistance at 20°C (68°F) of Cores (Ohms/Km)
			Min	Max.	Max.	Max.
JN 1018 PC 002	24	2	2.14	2.30	6.95	116.28
JN 1018 PC 004	22	2	2.44	2.60	9.80	61.2
JN 1018 PC 006	20	2	2.90	3.06	15.40	33.9
JN 1018 PC 010	18	2	3.38	3.55	22.30	21.5
JN 1018 PC 012	16	2	3.86	4.04	30.50	14.8
JN 1018 PC 020	14	2	4.34	4.53	39.70	11.1
JN 1018 PC 030	12	2	5.26	5.46	62.10	6.94
JN 1018 QC 002	24	3	2.29	2.47	9.95	116.28
JN 1018 QC 004	22	3	2.61	2.77	14.20	61.2
JN 1018 QC 006	20	3	3.11	3.27	22.50	33.9
JN 1018 QC 010	18	3	3.63	3.80	32.70	21.5
JN 1018 QC 012	16	3	4.15	4.33	44.90	14.8
JN 1018 QC 020	14	3	4.66	4.85	58.70	11.1
JN 1018 QC 030	12	3	5.66	5.86	91.80	6.94
JN 1018 RC 002	24	4	2.52	2.68	13.00	116.28
JN 1018 RC 004	22	4	2.88	3.04	18.60	61.2
JN 1018 RC 006	20	4	3.44	3.60	29.70	33.9
JN 1018 RC 010	18	4	4.01	4.18	43.10	21.5
JN 1018 RC 012	16	4	4.59	4.77	59.40	14.8
JN 1018 RC 020	14	4	5.17	5.36	77.80	11.1
JN 1018 RC 030	12	4	6.28	6.48	122.00	6.94

Core identification Colours :

Two cores : Red - Blue
Three cores : Red - Blue - Yellow
Four cores : Red - Blue - Yellow - Green.

External identification :

White with exception of size 004 : Pale blue)
Marking : JN1018 xx *** FR F ++

xx = Type code (PC or QC or QC) *** = Size code (002,004,006...etc...)
FR = Country of Origin (FR = France) F = Manufacturer (F = Filotex)
++ = Year of Production (i.e. 99 = 1999)

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Nexans

AEROSPACE

Type " JN 1019 "

Filotex®

Flexible Light Weight Wires
Screened and Sheathed single and multicores Types
150°C Operating Temperature Light Weight
Arc Tracking Resistant Cables

Characteristics

- Voltage rating : 600 Volts RMS
- Operating temperature : -65°C to +150°C.(Ambient + Rise)
- Operating frequency : up to 2000 Hz
- Dimensions and weight : see table on reverse of this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification

- Core Colours
- Sheat colours and Marking : see table on reverse of this data sheet
  FR = Country of Origin (FR = France)

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- EUROFIGHTER SPE-J-920-A-0061 issue KY (March 1999)
- EFA : J61.015

PRODUCT REFERENCES

JN1019
JN1007
JN1018

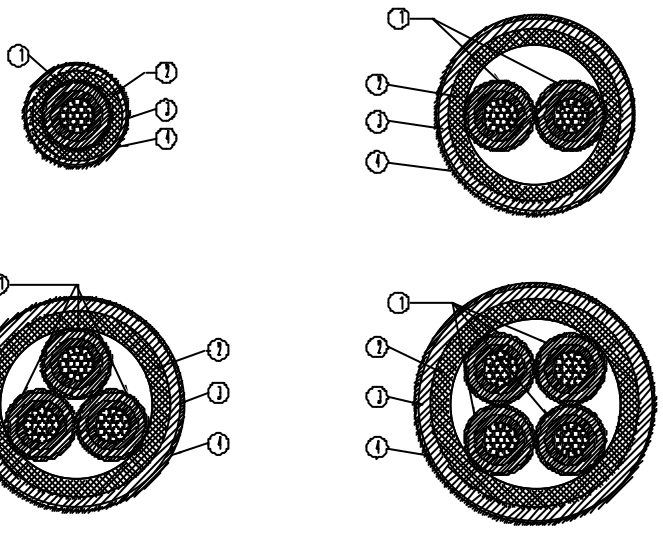
CONSTRUCTION

CORES
① Type JN 1007

SCREEN
② Nickel Copper Braided Screen

JACKET
③ Polyimide Tapes

④ UV Laser markable FEP Lacquer Top coat



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS JN 1019	US AWG	Nbr of Cores	Screen		Finished Cable			
			Strands AWG Size	O.D. (mm) Nom.	Diameter (mm) Min	Diameter (mm) Max.	Weight (Kg/Km) Max.	Resistance at 20°C (68°F) of Cores (Ohms/Km) Max.
JN 1019 SK 002	24	1	40	1.32	1.56	1.70	6.95	114
JN 1019 SK 004	22	1	40	1.47	1.71	1.85	8.85	60
JN 1019 SK 006	20	1	40	1.77	1.94	2.08	12.20	33.20
JN 1019 SK 010	18	1	38	2.01	2.18	2.33	16.30	21.10
JN 1019 SK 012	16	1	38	2.26	2.42	2.58	21.00	14.50
JN 1019 SK 020	14	1	38	2.50	2.66	2.80	26.30	10.90
JN 1019 SK 030	12	1	38	2.98	3.12	3.26	38.50	6.80
JN 1019 TB 002	24	2	40	2.32	2.49	2.67	12.00	116.28
JN 1019 TB 004	22	2	40	2.62	2.79	2.97	15.60	61.2
JN 1019 TB 006	20	2	38	3.14	3.25	3.44	22.40	33.9
JN 1019 TB 010	18	2	38	3.62	3.73	3.93	30.20	21.5
JN 1019 TB 012	16	2	38	4.12	4.21	4.42	39.50	14.8
JN 1019 TB 020	14	2	38	4.60	4.69	4.91	49.80	11.1
JN 1019 TB 030	12	2	38	5.56	5.61	5.84	74.10	6.94
JN 1019 UJ 002	24	3	40	2.47	2.64	2.82	16.00	116.28
JN 1019 UJ 004	22	3	40	2.79	2.96	3.14	21.10	61.2
JN 1019 UJ 006	20	3	38	3.35	3.46	3.64	30.60	33.9
JN 1019 UJ 010	18	3	38	3.86	3.98	4.18	42.00	21.5
JN 1019 UJ 012	16	3	38	4.40	4.50	4.72	55.60	14.8
JN 1019 UJ 020	14	3	38	4.91	5.02	5.26	70.60	11.1
JN 1019 UJ 030	12	3	38	5.95	6.01	6.28	106.00	6.94
JN 1019 VG 002	24	4	40	2.72	2.87	3.07	20.00	116.28
JN 1019 VG 004	22	4	40	3.08	3.23	3.43	26.50	61.2
JN 1019 VG 006	20	4	38	3.69	3.79	3.99	39.00	33.9
JN 1019 VG 010	18	4	38	4.26	4.37	4.59	54.00	21.5
JN 1019 VG 012	16	4	38	4.86	4.97	5.16	71.90	14.8
JN 1019 VG 020	14	4	38	5.44	5.52	5.76	91.70	11.1
JN 1019 VG 030	12	4	38	6.59	6.63	6.90	139.00	6.94

Core identification Colours :

One core (SK) : White with exception of size 004 : Pale blue
Two cores (TB) : Red - Blue
Three cores (UJ) : Red - Blue - Yellow
Four cores (VG) : Red - Blue - Yellow - Green.

External identification : White with exception of size 004 : Pale blue

Marking : JN1019 xx *** FR F ++

xx = Type code (SK, TB, UJ or VG)
*** = Size code (002,004,006...etc...)
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex)
++ = Year of Production (i.e. 97 = 1997)

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Nexans

AEROSPACE

JN 1026

Filotex®

Screened and Sheathed single and multicores Types 260°C Operating Temperature

Characteristics

- Voltage rating : 600 Volts RMS
- Operating temperature : -65°C to +260°C.(Ambient + Rise)
- Operating frequency : up to 2000 Hz
- Dimensions and weight : see table on page 2
- Transfer Impedance : see table on page 3
- Very Good Resistance to Aircraft Fluids

Identification

- Core Colours and marking : see on page 3

Applications

- Designed for general Purpose Aircraft Wiring Applications when ECM is required

Specifications

- PANAVIA SPECIFICATION SP-P-99300-00-P
- EUROFIGHTER JN 1026/J61.016
- EUROFIGHTER J61.011 (Basic core)
- EUROFIGHTER J56.010 (EMC Requirement)

PRODUCT REFERENCES

JN1026
PAN 6411

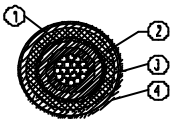
CONSTRUCTION

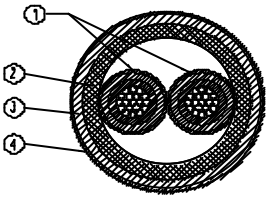
CORES
① Type PAN 6411

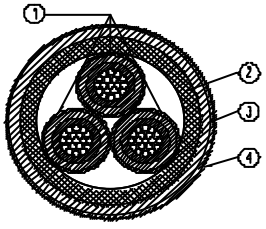
SCREEN
② Optimized Nickel Copper Braided Screen

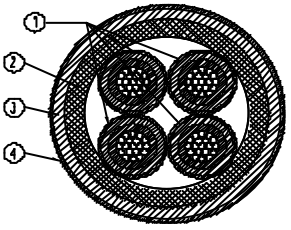
JACKET
③ Polyimide Tapes

④ UV Laser markable PTFE tape









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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS JN 1019	US AWG	Nbr of Cores	Screen		Finished Cable			
			Strands AWG Size	O.D. (mm)	Diameter (mm)		Weight (Kg/Km)	Resistance at 20°C (68°F) of Cores (Ohms/Km)
				Nom.	Nom.	Max.	Max.	Max.
JN 1026 SV 002	24	1	40	1.41	1.74	2.03	8.80	114.7
JN 1026 SV 004	22	1	40	1.55	1.88	2.19	10.8	58.80
JN 1026 SV 006	20	1	40	1.78	2.11	2.46	14.9	32.80
JN 1026 SV 010	18	1	38	2.11	2.44	2.72	19.4	20.80
JN 1026 SV 012	16	1	38	2.35	2.68	2.98	24.7	14.40
JN 1026 SV 020	14	1	38	2.59	2.92	3.35	31.7	10.60
JN 1026 SV 030	12	1	38	3.07	3.44	3.83	44.6	6.60
JN 1026 PV 002	24	2	38	2.58	2.91	3.18	15.5	116.99
JN 1026 PV 004	22	2	38	2.86	3.19	3.52	19.7	60
JN 1026 PV 006	20	2	38	3.32	3.65	4.04	27.6	33.5
JN 1026 PV 010	18	2	38	3.82	4.19	4.57	36.4	21.2
JN 1026 PV 012	16	2	38	4.30	4.67	5.09	47.0	14.7
JN 1026 PV 020	14	2	38	4.78	5.15	5.89	61.9	10.8
JN 1026 PV 030	12	2	36	5.82	6.19	6.86	88.3	6.73
JN 1026 QV 002	24	3	38	2.75	3.08	3.36	19.8	116.99
JN 1026 QV 004	22	3	38	3.05	3.38	3.72	25.7	60
JN 1026 QV 006	20	3	38	3.55	3.92	4.28	36.5	33.5
JN 1026 QV 010	18	3	38	4.09	4.46	4.84	49.4	21.2
JN 1026 QV 012	16	3	36	4.67	5.04	5.41	64.6	14.7
JN 1026 QV 020	14	3	36	5.19	5.56	6.26	85.7	10.8
JN 1026 QV 030	12	3	36	6.22	6.59	7.30	124	6.73
JN 1026 RV 002	24	4	38	3.05	3.36	3.65	24.3	116.99
JN 1026 RV 004	22	4	38	3.37	3.74	4.06	31.9	60
JN 1026 RV 006	20	4	38	3.92	4.30	4.69	46.1	33.5
JN 1026 RV 010	18	4	36	4.61	4.98	5.32	62.8	21.2
JN 1026 RV 012	16	4	36	5.19	5.56	6.02	83.6	14.7
JN 1026 RV 020	14	4	36	5.77	6.14	6.91	110	10.8
JN 1026 RV 030	12	4	36	6.93	7.30	8.07	160	6.73

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BASIC CORE PAN 6411/J61.011

Wire type PAN 6411	Cond. Size mm²	N° of strands	Diameter of strands	Conductor dia.		Finished wire			Resistance at 20°C Ohms/km
						Diameter		Mass kg/km	
				Min.	Max.	Min.	Max.	Max.	Max.
DP 002	0.208	19	0.118	0.59	0.63	1.00	1.16	3.55	114.7
DP 004	0.336	19	0.15	0.75	0.79	1.16	1.32	4.90	58.80
DP 006	0.597	19	0.20	1.00	1.04	1.35	1.55	7.70	32.80
DP 010	0.933	19	0.25	1.25	1.29	1.60	1.80	11.30	20.80
DP 012	1.34	19	0.30	1.50	1.55	1.85	2.05	15.80	14.40
DP 020	1.82	37	0.25	1.75	1.81	2.10	2.40	21.00	10.60
DP 030	2.91	37	0.315	2.21	2.27	2.55	2.90	32.00	6.60

MAXIMUM TRANSFER IMPEDANCE VALUES (mO/m)

Size code JN 1026	Single core (SV)	Two core cable (PV)	Three core cable (QV)	Four core cable (RV)
002	70,00	60,00	50,00	45,00
004	65,00	50,00	45,00	35,00
006	55,00	35,00	30,00	25,00
010	50,00	35,00	25,00	25,00
012	40,00	25,00	20,00	20,00
020	35,00	20,00	18,00	18,00
030	35,00	20,00	18,00	18,00

Core identification Colours :

One core (SV) : White
Two cores (PV) : Red - Blue
Three cores (QV) : Red - Blue - Yellow
Four cores (RV) : Red - Blue - Yellow - Green.

External identification :

Outer jacket colour : White
Marking green colour : JN1026 xx *** FR F ++

xx = Type code (SV, PV, QV or RV)
*** = Size code (002,004,006...)
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex)
++ = Year of Production (i.e. 03 = 2003)

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AEROSPACE

Filotex®

FX 5301
VG 95218-20 type H
Single wire

PRODUCT REFERENCES

FX 5301
FX 5303
FX 5400
FX 5401
FX 5403

CONSTRUCTION

CONDUCTOR
① Stranded conductor
Made of Silver Plated
Copper or
High Strength copper
alloy (size 002)

INSULATION
② PTFE tape

③ Polyimide tape

④ UV Laser markable FEP
Lacquer Top coat.

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Temperature rating : -65°C /+150°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Very good resistance to Aircraft Fluids.
- Arc Tracking Resistant

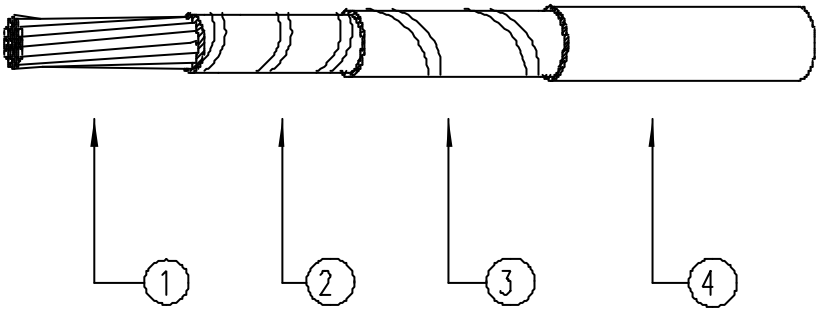
Identification

- Colours : White (Size 004 : Pale Blue)
- Marking : VG95218T020H**£ F 0241 ++ AC

** = Dash N°
£ = Colour (9 = White A = Pale blue)
++ = Year of production (ie. : 00 = 2000)
AC = Cable code according to TR 6058
F 0241 = Manufacturer's Cage code

Specifications

- VG 95218-2 (May 1998)
- VG 95218-20 (Feb 2000)



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

TYPE H : Single core silver plated copper or copper alloy conductor.

VG Reference	NEXANS Part Number	Dash Number (VG)	Size Code (NEXANS)	AWG (1)	Conductor		
					Stranding	Diameter	
					Nbr x Diam of strands (mm)	Min. (mm)	Max. (mm)
VG 95218T020H019	FX 5301-002	01	002	24	19 x 0.12	0.55	0.62
VG 95218T020H02A	FX 5301-004	02	004	22	19 x 0.15	0.70	0.80
VG 95218T020H039	FX 5301-006	03	006	20	19 x 0.20	0.94	1.04
VG 95218T020H049	FX 5301-010	04	010	18	19 x 0.25	1.18	1.29
VG 95218T020H059	FX 5301-012	05	012	16	19 x 0.30	1.39	1.53
VG 95218T020H069	FX 5301-020	06	020	14	37 x 0.25	1.68	1.82
VG 95218T020H079	FX 5301-030	07	030	12	37 x 0.32	2.12	2.28

(1) = For Information only.

Finished Wire			
Diameter		Weight	Maximum DC Resistance at 20°C (68°F)
Min. (mm)	Max. (mm)	Max. (g/m)	(Ohms/Km)
0.98	1.08	3.23	106
1.12	1.24	4.59	55.3
1.33	1.47	7.29	31
1.58	1.72	10.69	19.6
1.81	1.97	14.86	13.6
2.07	2.19	19.43	10.2
2.53	2.69	30.83	6.4

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AEROSPACE

Filotex®

FX 5303
VG 95218-22 type E
Single core shielded and jacketed
VG 95218-23 type D
Multi core shielded and jacketed

PRODUCT REFERENCES

FX 5303

CONSTRUCTION

CORES

① FX 5301

SCREEN

② Silver Plated copper Braided screen

JACKET

③ Polyimide tapes

④ UV Laser markable FEP Lacquer Top coat.

Applications

Designed for general Purpose Aircraft Wiring Applications.

Main data

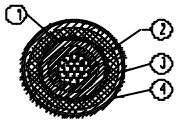
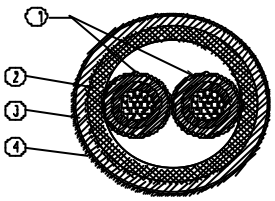
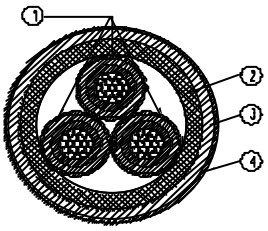
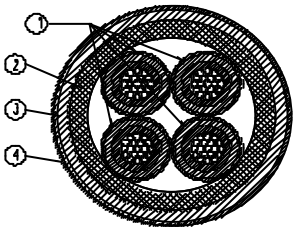
- Temperature rating : -65°C /+150°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on page 2.
- Very good resistance to Aircraft Fluids.
- Arc Tracking Resistant

Identification

- Core colour }
- Jacket colour } see page 2.
- Marking }

Specifications

- VG 95218-2 (May 1998)
- VG 95218-22 (October 1999)
- VG 95218-23 (October 1999)

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

TYPE E : Single core shielded and jacketed **TYPE D : Multi cores shielded and jacketed**

VG Reference	NEXANS Part Number	Nbr. Of Cores	Dash Number (VG)	Size Code (NEXANS)	AWG (1)	Diam.of Screen strand (mm)	Finished Wire			
							Diameter		Weight	Max. DC Resistance at 20°C (68°F) (Ohms/Km)
							Min. (mm)	Max. (mm)	Max. (g/m)	
VG 95218T022E001	FX 5303-1-002	1	001	002	24	0.08	1.52	1.68	7.04	106
VG 95218T022E002	FX 5303-1-004	1	002	004	22	0.08	1.66	1.85	8.85	55.3
VG 95218T022E003	FX 5303-1-006	1	003	006	20	0.08	1.87	2.08	12.2	31
VG 95218T022E004	FX 5303-1-010	1	004	010	18	0.10	2.21	2.39	17.56	19.6
VG 95218T022E005	FX 5303-1-012	1	005	012	16	0.10	2.44	2.64	22.59	13.6
VG 95218T022E006	FX 5303-1-020	1	006	020	14	0.10	2.70	2.86	27.94	10.2
VG 95218T022E007	FX 5303-1-030	1	007	030	12	0.10	3.16	3.36	41.06	6.4
VG 95218T023D001	FX 5303-2-002	2	001	002	24	0.08	2.47	2.73	12.27	109.2
VG 95218T023D002	FX 5303-2-004	2	002	004	22	0.08	2.76	3.05	15.77	57
VG 95218T023D003	FX 5303-2-006	2	003	006	20	0.10	3.25	3.59	23.97	31.9
VG 95218T023D004	FX 5303-2-010	2	004	010	18	0.10	3.76	4.08	32.29	30.2
VG 95218T023D005	FX 5303-2-012	2	005	012	16	0.10	4.22	4.58	42.20	14.0
VG 95218T023D006	FX 5303-2-020	2	006	020	14	0.10	4.73	5.03	52.81	10.5
VG 95218T023D007	FX 5303-2-030	2	007	030	12	0.10	5.66	6.02	78.85	6.6
VG 95218T023D008	FX 5303-3-002	3	008	002	24	0.08	2.61	2.89	16.44	109.2
VG 95218T023D009	FX 5303-3-004	3	009	004	22	0.08	2.93	3.23	21.45	57
VG 95218T023D010	FX 5303-3-006	3	010	006	20	0.10	3.45	3.81	32.85	31.9
VG 95218T023D011	FX 5303-3-010	3	011	010	18	0.10	4.00	4.34	44.90	30.2
VG 95218T023D012	FX 5303-3-012	3	012	012	16	0.10	4.50	4.88	59.32	14.0
VG 95218T023D013	FX 5303-3-020	3	013	020	14	0.10	5.04	5.36	74.82	10.5
VG 95218T023D014	FX 5303-3-030	3	014	030	12	0.10	6.05	6.43	113.00	6.6
VG 95218T023D015	FX 5303-4-002	4	015	002	24	0.08	2.86	3.16	20.61	109.2
VG 95218T023D016	FX 5303-4-004	4	016	004	22	0.08	3.20	3.54	27.13	57
VG 95218T023D017	FX 5303-4-006	4	017	006	20	0.10	3.78	4.18	41.74	31.9
VG 95218T023D018	FX 5303-4-010	4	018	010	18	0.10	4.41	4.77	57.51	30.2
VG 95218T023D019	FX 5303-4-012	4	019	012	16	0.10	4.96	5.38	76.43	14.0
VG 95218T023D020	FX 5303-4-020	4	020	020	14	0.10	5.58	5.92	96.83	10.5
VG 95218T023D021	FX 5303-4-030	4	021	030	12	0.10	6.69	7.11	147.14	6.6

(1) = For Information only

COLOUR and MARKING :

SINGLE CORE SHIELDED AND JACKETED (TYPE E) :	
Core colour	**Marking on Jacket :**
White (with exception of size 004 : Pale Blue)	White (with exception of size 004 : Pale Blue) Marking : VG95218T022E*** F 0241 ++ GE

MULTI CORE SHIELDED AND JACKETED (TYPE D) :	
Core Identification	**Marking on Jacket :**
White (with exception of size 004 : Pale Blue)	White (with exception of size 004 : Pale Blue)
Marking with coloured arabic digits printed on the core and a dash placed under-neath it. : Core number 1 : digit = 1 - Core number 2 : digit = 2...and so on	Marking : VG95218T023D*** F 0241 ++ ##

*** = Dash number (VG)
++ = Year of production (ie. : 00 = 2000)
= Cable code according to TR 6058 : GF = 2 cores GG = 3 cores GH = 4 cores

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AEROSPACE

ABS 0949 - AD

AWG 24 to 4
Nickel Copper Clad Aluminium Alloy Conductors
UV laser printable

Filotex®

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -65°C to +180°C.(Ambient.+ Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification

- Standard Colour : Grey
- Marking : Green for AWG22, Blue for other gauges
- Wording : AD ** FRF++

FR = Country of origin (FR = France)
F = Manufacturer (F = Nexans)
++ = Year of Production (ie. 00 = 2000)

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- ABS 0957 (conductors)
- ABS 0958 (Technical specification)
- ABS 0949 AD (Product specification)

PRODUCT REFERENCES

ABS 0949 AD **

CONSTRUCTION

CONDUCTOR

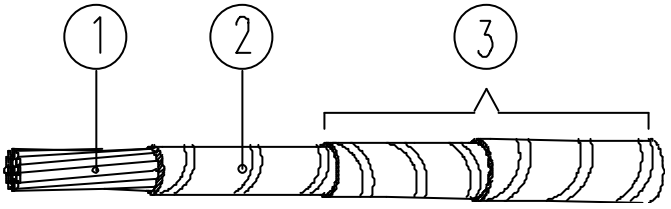
① AWG 24 and 22
1 nickel plated copper alloy wirer +6 nickel copper clad aluminium alloy wire
AWG 20 to 8
Nickel copper clad aluminium alloy concentric conductor
AWG 6 and 4
Nickel copper clad aluminium alloy rope-lay conductor

INSULATION

② High performance polyimide tape

③ Special UV PTFE Tape

Filotex® ABS 0949 AD



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

Nexans References	AWG	Conductor			Finished wire				
		Stranding	Diameter		Maximum DC Resistance at 20°C (68°F)	Diameter		Maximum Weight	
		(Nbr x mm)	Mini. (mm)	Maxi. (mm)	(Ohms/Km)	Mini. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
ABS 0949 AD 24	24	7 x 0.20	0.56	0.58	145	0.85	0.96	1.70	1.75
ABS 0949 AD 22	22	7 x 0.25	0.71	0.73	90.2	1.00	1.10	2.37	2.50
ABS 0949 AD 20	20	19 x 0.20	0.94	0.97	49.6	1.22	1.34	3.55	3.65
ABS 0949 AD 18	18	19 x 0.25	1.19	1.22	33.2	1.46	1.61	5.14	5.45
ABS 0949 AD 16	16	19 x 0.30	1.41	1.45	23	1.76	1.92	7.37	7.60
ABS 0949 AD 14	14	37 x 0.25	1.69	1.73	15.5	2.04	2.24	9.91	10.94
ABS 0949 AD 12	12	37 x 0.32	2.13	2.18	10.9	2.50	2.70	14.12	15.10
ABS 0949 AD 10	10	61 x 0.32	2.73	2.77	5.8	3.09	3.33	22.20	24.02
ABS 0949 AD 8	8	7 X 19 X 0.30	3.55	3.85	3.8	4.10	4.40	37.94	39.00
ABS 0949 AD 6	6	7 x 10 x 0.51	4.8	5.2	2.3	5.30	5.70	62.52	63.70
ABS 0949 AD 4	4	7 x 15 x 0.51	5.90	6.30	1.5	6.60	7.40	93.50	96.30

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AEROSPACE

ABS 0949 - AD

AWG 3 to 000

Filotex®

Nickel Plated Aluminium Alloy Conductors
UV laser printable

PRODUCT REFERENCES

ABS 0949 AD **

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -65°C to +180°C.(Ambient.+ Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification

- Standard Colour : Grey
- Marking : Blue
- Wording : AD ** FRF++

FR = Country of origin (FR = France)
F = Manufacturer (F = Nexans)
++ = Year of Production (ie. 00 = 2000)

CONSTRUCTION

CONDUCTOR
① Nickel plated aluminium rope-lay conductor

INSULATION
② High performance polyimide tape

③ Special UV PTFE Tape

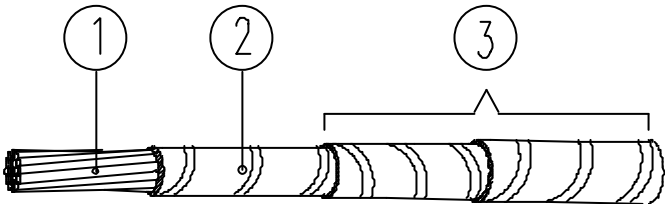
Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- ABS 0957 (conductors)
- ABS 0958 (Technical specification)
- ABS 0949 AD (Product specification)

Filotex® ABS 0949 AD



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

Nexans References	AWG	Conducteur			Finished wire				
		Stranding	Diameter		Maximum DC Resistance at 20°C (68°F)	Diameter		Maximum Weight	
		(Nbr x mm)	Mini. (mm)	Maxi. (mm)	(Ohms/Km)	Mini. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
ABS 0949 AD 3	3	7 x 19 x 0.51	6.5	7.1	1.18	7.28	7.74	91.26	94.00
ABS 0949 AD 2	2	7 x 24 x 0.51	7.4	8.0	0.94	8.07	8.57	113.1	116.5
ABS 0949 AD 1	1	7 x 30 x 0.51	8.3	8.9	0.75	8.94	9.50	139.17	143.5
ABS 0949 AD 0	0	19 x 14 x 0.51	9.7	10.3	0.60	10.29	10.93	175.81	181.0
ABS 0949 AD 00	00	19 x 18 x 0.51	11.1	11.7	0.43	11.65	12.37	222.96	230.0
ABS 0949 AD 000	000	19 x 22 x 0.51	12.4	13	0.36	12.91	13.71	267.57	276.0

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AEROSPACE

ABS 1354

Filotex®

Multicores Ni. Copper Clad Alu. (AWG 24 to 4)
Multicores Aluminium alloy (AWG 3 to 000)

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -65°C to +180°C.(Ambient.+ Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- ABS1354 Product Standard
- ABS0958 Technical Specification

PRODUCT REFERENCES

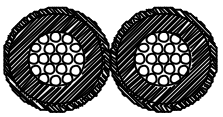
ABS 1354 AD+ **

CONSTRUCTION

CORES

2, 3 or 4 Cores
ABS 0949 ADA

ADB



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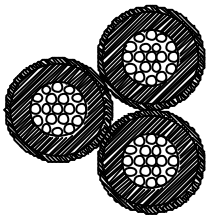

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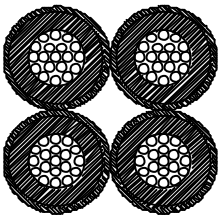

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Nbr of Cores	Finished Wire				
			Colours Cores	Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
					Nom.	Max.	Nom.	Max.
ABS 1354 ADB	24	2		149.4	1.78	1.9	3.47	3.70
ABS 1354 ADB	22	2		92.9	2.04	2.16	4.83	5.27
ABS 1354 ADB	20	2		51.1	2.58	2.75	7.24	7.53
ABS 1354 ADB	18	2		34.2	3.08	3.25	10.49	10.91
ABS 1354 ADB	16	2		23.7	3.70	3.85	15.03	15.63
ABS 1354 ADB	14	2		16	4.30	4.47	20.22	21.03
ABS 1354 ADB	12	2	1 Red	11.2	5.12	5.31	28.80	30.07
ABS 1354 ADB	10	2	1 Blue	6	6.34	6.98	45.29	51.94
ABS 1354 ADB	8	2		3.91	8.58	8.92	77.4	80.5
ABS 1354 ADB	6	2		2.37	11.0	11.44	127.54	132.64
ABS 1354 ADB	4	2		1.55	13.42	13.96	190.74	198.37
ABS 1354 ADB	3	2		1.22	15.02	15.62	186.17	193.62
ABS 1354 ADB	2	2		0.97	16.64	17.31	230.72	239.95
ABS 1354 ADB	1	2		0.77	18.44	18.99	283.91	295.27
ABS 1354 ADB	0	2		0.62	21.22	21.86	358.65	372.99
ABS 1354 ADB	00	2		0.44	24.02	24.74	454.84	473.03
ABS 1354 ADB	000	2		0.37	26.62	27.42	545.84	567.68
ABS 1354 ADC	24	3		149.4	1.92	2.04	5.20	5.55
ABS 1354 ADC	22	3		92.9	2.20	2.33	7.25	7.91
ABS 1354 ADC	20	3		51.1	2.78	2.96	10.86	11.29
ABS 1354 ADC	18	3		34.2	3.32	3.49	15.73	16.36
ABS 1354 ADC	16	3		23.7	3.99	4.15	22.55	23.45
ABS 1354 ADC	14	3		16	4.63	4.83	30.32	31.54
ABS 1354 ADC	12	3	1 Red	11.2	5.52	5.73	43.21	45.10
ABS 1354 ADC	10	3	1 Blue	6	6.83	7.53	67.93	77.91
ABS 1354 ADC	8	3	1 Yellow	3.91	9.24	9.61	116.10	120.74
ABS 1354 ADC	6	3		2.37	11.85	12.32	191.31	198.96
ABS 1354 ADC	4	3		1.55	14.46	15.04	286.11	297.55
ABS 1354 ADC	3	3		1.22	16.18	16.83	279.26	290.43
ABS 1354 ADC	2	3		0.97	17.93	18.65	346.09	359.93
ABS 1354 ADC	1	3		0.77	19.87	20.66	425.86	442.89
ABS 1354 ADC	0	3		0.62	22.86	23.50	537.98	559.5
ABS 1354 ADC	00	3		0.44	25.88	26.60	682.26	709.55
ABS 1354 ADC	000	3		0.37	28.68	29.48	818.76	851.51

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ABS 1354 ADD	24	4		149.4	2.15	2.28	6.94	7.41
ABS 1354 ADD	22	4		92.9	2.46	2.61	9.67	10.54
ABS 1354 ADD	20	4		51.1	3.11	3.32	14.48	15.06
ABS 1354 ADD	18	4		34.2	3.72	3.92	20.97	21.81
ABS 1354 ADD	16	4		23.7	4.47	4.65	30.07	31.27
ABS 1354 ADD	14	4	1 Red	16	5.19	5.40	40.43	42.05
ABS 1354 ADD	12	4	1 Blue	11.2	6.18	6.42	57.61	60.13
ABS 1354 ADD	10	4	1 Yellow	6	7.65	8.43	90.58	103.89
ABS 1354 ADD	8	4	1 Green	3.91	10.36	10.77	154.8	160.99
ABS 1354 ADD	6	4		2.37	13.28	13.81	255.08	265.28
ABS 1354 ADD	4	4		1.55	16.20	16.85	381.48	396.74
ABS 1354 ADD	3	4		1.22	18.13	18.86	372.34	387.23
ABS 1354 ADD	2	4		0.97	20.08	20.88	461.45	479.91
ABS 1354 ADD	1	4		0.77	22.26	23.15	567.81	590.52

Core identification Colours :

- ❒ Two cores (ADB) : Red - Blue
- ❒ Three cores (ADC) : Red - Blue - Yellow
- ❒ Four cores (ADD) : Red - Blue - Yellow – Green
  Marking : ADA ** FRF++ _____ ADA ** FRF++ _____
  Colour : Black

** = AWG

FR = Country of Origin (FR = France)

F = Manufacturer (F= Filotex®)

++ = Year of manufacturing (ie. 03 = 2003)

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AEROSPACE

ABS 1356

Filotex®

Screened and Jacketed single and multicores UV Laser printable

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -65°C to +180°C.(Ambient.+ Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification

- Core Colours
- Jacket Colours and Marking : see next pages on this data sheet

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- ABS 1356

PRODUCT REFERENCES

ABS 1356 VN+ **

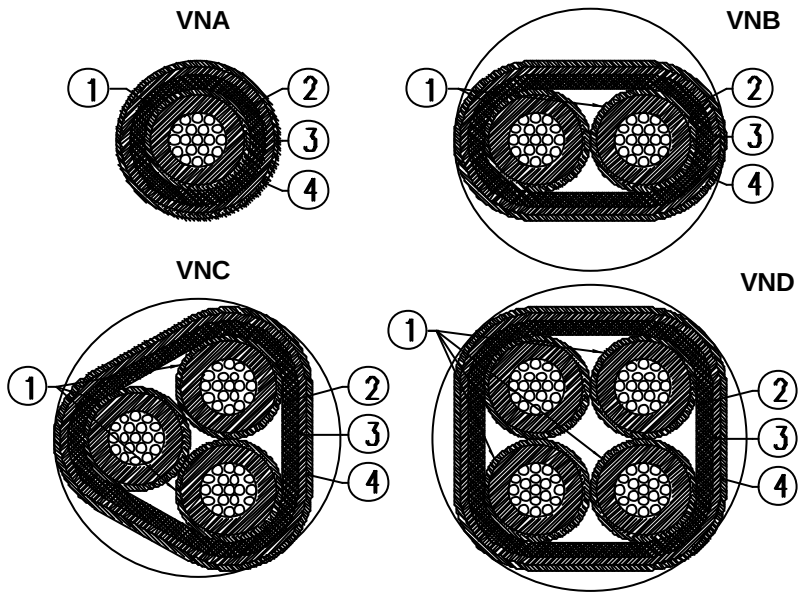
CONSTRUCTION

CORES
① 1, 2, 3 or 4 Cores ABS 0949 AD

SCREEN
② Nickel-plated copper spiral screen

JACKET
③ Polyimide Tape

④ UV PTFE Tape



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
				Colours		Maximum DC Resistance at	Diameter		Weight	
				Cores	Jacket	20°C (68°K) (Ohms/Km)	(mm) Nom.	(mm) Max.	(g/m) Nom.	(g/m) Max.
ABS 1356 VNA	24	1	0.08	1 Grey	Grey	145	1.38	1.45	4.57	4.80
ABS 1356 VNA	22	1	0.08	1 Grey	Grey	90.2	1.51	1.60	5.58	5.86
ABS 1356 VNA	20	1	0.08	1 Grey	Grey	49.6	1.78	1.87	7.48	7.75
ABS 1356 VNA	18	1	0.08	1 Grey	Grey	33.2	2.03	2.11	9.73	10.40
ABS 1356 VNA	16	1	0.10	1 Grey	Grey	23	2.38	2.48	13.64	14.51
ABS 1356 VNA	14	1	0.10	1 Grey	Grey	15.5	2.68	2.79	17.10	17.96
ABS 1356 VNA	12	1	0.10	1 Grey	Grey	10.9	3.09	3.20	22.56	24.30
ABS 1356 VNA	10	1	0.12	1 Grey	Grey	5.8	3.74	3.89	33.91	36.07
ABS 1356 VNB	24	2	0.08		Grey	149.4	2.27	2.40	7.84	8.15
ABS 1356 VNB	22	2	0.08		Grey	92.9	2.53	2.70	9.77	10.16
ABS 1356 VNB	20	2	0.10	1 Red	Grey	51.1	3.11	3.27	14.31	14.88
ABS 1356 VNB	18	2	0.10	1 Blue	Grey	34.2	3.61	3.75	18.81	20.20
ABS 1356 VNB	16	2	0.12		Grey	23.7	4.27	4.44	26.26	28.10
ABS 1356 VNB	14	2	0.15		Grey	16.0	4.93	5.13	35.5	37.27
ABS 1356 VNB	12	2	0.20		Grey	11.2	5.85	6.09	51.50	55.78
ABS 1356 VNB	10	2	0.20		Grey	6.0	7.07	7.39	73.05	78.19
ABS 1356 VNC	24	3	0.10		Grey	149.4	2.45	2.59	11.14	11.59
ABS 1356 VNC	22	3	0.10		Grey	92.9	2.73	2.91	13.96	14.52
ABS 1356 VNC	20	3	0.12	1 Red	Grey	51.1	3.35	3.52	20.34	21.15
ABS 1356 VNC	18	3	0.12	1 Blue	Grey	34.2	3.89	4.05	26.89	28.80
ABS 1356 VNC	16	3	0.15	1 Yellow	Grey	23.7	4.62	4.80	38.23	40.80
ABS 1356 VNC	14	3	0.15		Grey	16.0	5.26	5.47	48.38	50.80
ABS 1356 VNC	12	3	0.20		Grey	11.2	6.25	6.50	70.04	75.81
ABS 1356 VNC	10	3	0.20		Grey	6.0	7.56	7.90	100.81	107.60
ABS 1356 VND	24	4	0.10		Grey	149.4	2.68	2.84	13.74	14.29
ABS 1356 VND	22	4	0.10	1 Red	Grey	92.9	2.99	3.19	17.37	18.06
ABS 1356 VND	20	4	0.12	1 Blue	Grey	51.1	3.68	3.86	25.38	26.39
ABS 1356 VND	18	4	0.12	1 Yellow	Grey	34.2	4.29	4.46	33.83	36.22
ABS 1356 VND	16	4	0.15	1 Green	Grey	23.7	5.10	5.30	48.14	51.30
ABS 1356 VND	14	4	0.20		Grey	16.0	5.92	6.16	66.67	70.00

Core identification Colours :

- One core (VNA) : Grey
- Two cores (VNB) : Red - Blue
- Three cores (VNC) : Red - Blue - Yellow
- Four cores (VND) : Red - Blue - Yellow - Green
  Marking : ADA ** FRF++ _____ ADA ** FRF++ _____
  Colour : Black

Jacket identification :

Grey
Marking : XXX ** FRF++
Colour : Green for AWG 22 – 18 – 14 –10 and Blue for AWG 24 – 20 – 16 - 12
XXX : Short designation (VNA, VNB, VNC, VND)
** = AWG
FR = Country of Origin (FR = France)
F = Manufacturer (F= Filotex®)
++ = Year of manufacturing (ie. 02 = 2002)

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Nexans

AEROSPACE

BAS 8710

Filotex®

CABLE - AIRFRAME
GENERAL PURPOSE +210 °C

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -65°C to +210°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

PRODUCT REFERENCES

BAS 8710 AWG **

CONSTRUCTION

CONDUCTOR

① Stranded Conductor : Nickel Plated High Strength Copper Alloy (AWG 24) or Nickel Plated Copper (AWG 22 to 10).

INSULATION

② 2 FEP/POLYIMIDE/FEP Tapes

COLOURED TOPCOAT

③ Mechanical polyimide coating protection

Identification

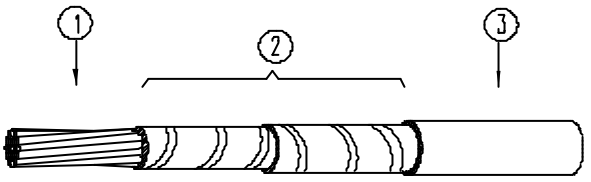
- Colours : Beige
- Wording: 710-FF-++-**

With : ** = AWG Wire Size
F = Manufacturer (F = Filotex®)
F = Country of Origin (F = France)
++ = Year of Manufacturing (ie. 00 = 2000)

Specifications

- SB/8D/5063-03 Part B1

Filotexâ BAS 8710



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

NEXANS Filotex â PART NUMBER	US AWG	Conductor			Finished Wire			
		Stranding	Diameter		Maximum DC Resistance at 20°C (68°F)	Diameter		Maximum Weight
		(Nbr x mm)	(mm)		(Ohms/Km)	(mm)		(g/m)
			Mini.	Maxi.		Mini.	Maxi.	
BAS 8710 AWG 24	24	19 x 0.120	0.53	0.63	112.6	0.95	1.10	3.00
BAS 8710 AWG 22	22	19 x 0.150	0.68	0.80	60.0	1.07	1.25	4.23
BAS 8710 AWG 20	20	19 x 0.193	0.90	1.02	35.9	1.28	1.47	6.50
BAS 8710 AWG 18	18	19 x 0.250	1.18	1.30	21.2	1.55	1.75	10.40
BAS 8710 AWG 16	16	37 x 0.200	1.32	1.45	17.2	1.68	1.90	12.64
BAS 8710 AWG 14	14	37 x 0.250	1.65	1.80	10.9	2.02	2.25	19.30
BAS 8710 AWG 12	12	37 x 0.315	2.10	2.25	6.73	2.45	2.70	29.80
BAS 8710 AWG 10	10	37 x 0.400	2.69	2.85	4.13	3.20	3.50	49.50

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AEROSPACE

BAS 8711 / 8712 / 8713

Filotex®

Cable – Airframe
Single and Multi-cores Screened and Sheathed
General Purpose +210 °C

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -65°C to +210°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

PRODUCT REFERENCES

BAS 8711 AWG **
BAS 8712 AWG **
BAS 8713 AWG **
BAS 8710 AWG **

Identification

- Core identification
  Colours : Sinale core: Beiae
  Two cores : Black / Red with marking
  Three cores : Black / Red with marking / Green
- Jacket identification colour : White (with marking for single core)

Marking : Wording: 71£-FF-++-**

With : £ = Number of core
** = AWG Wire Size
F = Manufacturer (F = Filotex®)
F = Country of Origin (F = France)
++ = Year of Manufacturing (ie. 03 = 2003)

CONSTRUCTION

CORES (BAS 8710)

SCREEN
Nickel Plated Copper Spinning

SHEATH
FEP/POLYIMIDE/FEP Tape(s).
Mechanical polyimide coating protection for single core.
PTFE Tape(s) for multi-cores

Specifications : SB/8D/5063-01 Part B

BAS 8711

BAS 8712

BAS 8713

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

NEXANS Filotex â PART NUMBER	US AWG	Finished Cable					
		Nbr of cores	Nom. Diameter of shield strands	Maximum DC Resistance at 20°C (68°F)	Diameter (mm)		Maximum Weight
			(mm)	(Ohms/Km)	Min.	Max.	(g/m)
BAS 8711 AWG 24	24	1	0.07	112.6	1.26	1.50	5.70
BAS 8711 AWG 22	22	1	0.07	60.0	1.38	1.62	7.25
BAS 8711 AWG 20	20	1	0.07	35.9	1.58	1.82	10.0
BAS 8711 AWG 18	18	1	0.07	21.2	1.87	2.11	14.6
BAS 8712 AWG 24	24	2	0.10	116.0	2.39	2.79	16.2
BAS 8712 AWG 22	22	2	0.10	61.8	2.63	3.03	21.8
BAS 8712 AWG 20	20	2	0.10	37.0	3.09	3.49	25.2
BAS 8712 AWG 18	18	2	0.12	21.8	3.70	4.10	37.5
BAS 8713 AWG 24	24	3	0.10	116.0	2.55	2.95	21.4
BAS 8713 AWG 22	22	3	0.10	61.8	2.80	3.20	28.2
BAS 8713 AWG 20	20	3	0.10	37.0	3.31	3.71	33.3
BAS 8713 AWG 18	18	3	0.12	21.8	3.95	4.35	52.1

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AEROSPACE

Filotex® Type ASN-E0261

Filotex®

200°C Operating Temperature Flexible Light Weight Wires Unscreened and Unsheathed Types

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Conductor Construction : AECMA EN 2083 Specification
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

PRODUCT REFERENCES

ASN-E0261 CF
ASN-E0264 PF
ASN-E0266 QF
ASN-E0268 RF
ASN-E0270 SJ
ASN-E0272 TK
ASN-E0274 UD

CONSTRUCTION

CONDUCTOR

① A Stranded Conductor Made of Nickel Plated High Strength Copper Alloy (AWG 26 & 24) or Nickel Plated Copper (AWG 22 to 10).

INSULATION

② 2 FEP/POLYIMIDE/FEP Tapes

COLOURED TOPCOAT

③ FEP (Laser Markable Optional) or PTFE for cores of Multicores Cables

Identification

- Colours : White Except AWG 22 Size Which is Light Green.
- Wording : ■ CF ** @ FR F ++ ■ CF ** @ FR F ++

With : ** = AWG Wire Size
@ = U letter for UV Laser Markable Wires
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
++ = Year of Production (ie. 00 = 2000)

Specifications

- AECMA EN 2083 (Conductors)
  ASN-E0261
  NSA 935000, NSA 307110
  AS N°462012/84, AS 482018/89
  SDF/B67-04/A/108/1128

Filotex® ASN-E0261

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

NEXANS CABLE Filotex â PART NUMBER	US AWG	Conductor		Finished Wire				
		Stranding	Nomi.Diam	Maximum DC Resistance at 20°C (68°F)	Diameter			Maximum Weight
		(Nbr x mm)	(mm)	(Ohms/Km)	(mm)			(g/m)
					Mini.	Nom.	Max.	
ASN-E0261 CF 26 U	26	19 x 0.100	0.49	160	0.75	0.80	0.84	2.00
ASN-E0261 CF 24 U	24	19 x 0.120	0.58	114	0.85	0.89	0.94	2.65
ASN-E0261 CF 22 U	22	19 x 0.160	0.73	60	0.98	1.04	1.09	3.90
ASN-E0261 CF 20 U	20	19 x 0.200	0.97	33.2	1.22	1.28	1.34	6.55
ASN-E0261 CF 18 U	18	19 x 0.250	1.22	21.1	1.45	1.53	1.59	9.90
ASN-E0261 CF 16 U	16	19 x 0.300	1.46	14.5	1.70	1.77	1.84	13.9
ASN-E0261 CF 14 U	14	37 x 0.250	1.71	10.9	1.93	2.02	2.10	18.5
ASN-E0261 CF 12 U	12	37 x 0.320	2.19	6.8	2.41	2.50	2.60	29.7
ASN-E0261 CF 10 U	10	61 x 0.320	2.81	4.1	3.03	3.12	3.25	48.3

U = UV Laser Markable

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AEROSPACE

Filotex® Type ASN-E0264 ASN-E0266 ASN-E0268

Filotex®

200°C Operating Temperature Flexible Light Weight Wires Unscreened and Unsheathed Types

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Conductor Construction : AECMA EN 2083 Specification
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- Cores Colours : 1st Core Red
  2nd Core Light Blue
  3rd Core Yellow
  4th Core Green

- Marking

Colour : White on red and dark green wires
Dark Green on others.

Wording : ■ CF ** A FR F ++ ■ CF ** A FR

With : ** = AWG Wire Size
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
++ = Year of Production (ie. 00 = 2000)

Specifications

- AECMA EN 2083 (Conductors)
- ASN-E0261, ASN-E0264, ASN-E0266, ASN-E0268
- NSA 935000, NSA 307110 AS N°462012/84, AS 482018/89

PRODUCT REFERENCES

ASN-E0261 CF
ASN-E0264 PF
ASN-E0266 QF
ASN-E0268 RF
ASN-E0270 SJ
ASN-E0272 TK
ASN-E0274 UD

CONSTRUCTION

CORES (ASN-E0261)

CONDUCTOR
A Stranded Conductor Made of Nickel Plated High Strength Copper Alloy (AWG 26 & 24) or Nickel Plated Copper (AWG 22 to 10).

INSULATION
2 FEP/POLYIMIDE/FEP Tapes

COLOURED TOPCOAT
PTFE

NUMBER OF CORES
ASN-E0264 : 2
ASN-E0266 : 3
ASN-E0268 : 4

Filotex®

ASN-E0264

ASN-E0266

ASN-E0268

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	Number of Cores	US AWG	Conductor		Finished Cable				
			Stranding	Nomi. Diam.	Maximum DC Resistance at 20°C (68°F)	Diameter			Maximum Weight
			(Nbr x Diam.in mm)	(mm)	(Ohms/Km)	(mm)			(g/m)
						Mini.	Nom.	Max.	
ASN-E0264 PF 26	2	26	19 x 0.100	0.49	164	1.55	1.60	1.65	3.90
ASN-E0264 PF 24	2	24	19 x 0.120	0.58	117	1.73	1.78	1.83	5.3
ASN-E0264 PF 22	2	22	19 x 0.160	0.73	64	2.02	2.08	2.14	7.8
ASN-E0264 PF 20	2	20	19 x 0.200	0.97	34.9	2.48	2.56	2.64	13.2
ASN-E0264 PF 18	2	18	19 x 0.250	1.22	22.1	2.97	3.06	3.15	19.9
ASN-E0264 PF 16	2	16	19 x 0.300	1.46	15.2	3.43	3.54	3.65	28.1
ASN-E0264 PF 14	2	14	37 x 0.250	1.71	11.2	3.92	4.04	4.16	37.4
ASN-E0264 PF 12	2	12	37 x 0.320	2.19	7	4.85	5.00	5.15	60.2
ASN-E0264 PF 10	2	10	61 x 0.320	2.81	4.2	6.05	6.24	6.43	97.7
ASN-E0266 QF 26	3	26	19 x 0.100	0.49	164	1.67	1.72	1.78	5.9
ASN-E0266 QF 24	3	24	19 x 0.120	0.58	117	1.86	1.92	1.98	8.0
ASN-E0266 QF 22	3	22	19 x 0.160	0.73	64	2.17	2.24	2.31	11.8
ASN-E0266 QF 20	3	20	19 x 0.200	0.97	34.9	2.68	2.76	2.84	19.8
ASN-E0266 QF 18	3	18	19 x 0.250	1.22	22.1	3.20	3.30	3.40	29.9
ASN-E0266 QF 16	3	16	19 x 0.300	1.46	15.2	3.70	3.81	3.93	42.1
ASN-E0266 QF 14	3	14	37 x 0.250	1.71	11.2	4.22	4.35	4.48	56.2
ASN-E0266 QF 12	3	12	37 x 0.320	2.19	7	5.23	5.39	5.55	90.2
ASN-E0266 QF 10	3	10	61 x 0.320	2.81	4.2	6.52	6.72	6.92	146.5
ASN-E0268 RF 26	4	26	19 x 0.100	0.49	164	1.87	1.93	1.99	7.8
ASN-E0268 RF 24	4	24	19 x 0.120	0.58	117	2.08	2.15	2.21	10.6
ASN-E0268 RF 22	4	22	19 x 0.160	0.73	64	2.44	2.51	2.59	15.7
ASN-E0268 RF 20	4	20	19 x 0.200	0.97	34.9	3.00	3.09	3.18	26.4
ASN-E0268 RF 18	4	18	19 x 0.250	1.22	22.1	3.58	3.69	3.80	39.9
ASN-E0268 RF 16	4	16	19 x 0.300	1.46	15.2	4.14	4.27	4.40	56.2
ASN-E0268 RF 14	4	14	37 x 0.250	1.71	11.2	4.73	4.88	5.02	74.9
ASN-E0268 RF 12	4	12	37 x 0.320	2.19	7	5.85	6.04	6.22	120.3
ASN-E0268 RF 10	4	10	61 x 0.320	2.81	4.2	7.31	7.53	7.76	195.3

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AEROSPACE

Filotex® Type ASN-E0270 ASN-E0272 ASN-E0274

Filotex®

200°C Operating Temperature Flexible Light Weight Cables Screened and Sheathed Types

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Conductor Construction : AECMA EN 2083 Specification
- Dimensions and weights : See tables on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- Cores Colours : See Tables on this Data Sheet
- Sheaths Colours : See Tables on this Data Sheet
- Marking:

Colour : White on Red and Dark Green wires
Dark Green on others.

Wording : *On Cores*
■ CF ** A FR F ++ ■ CF ** A FR
On Sheaths
■ $$ ** £ FR F ++ ■ $$ ** £ FR

With : $$ = ASN-E Type (SJ, TK or UD)
** = AWG Wire Size
£ = Topcaot Code (U, C or None)
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
++ = Year of Production (ie. 00 = 2000)

Specifications

- AECMA EN 2083 (Conductors)
- ASN-E0261, ASN-E0270, ASN-E0272, ASN-E0274
- NSA 935000, NSA 307 110 AS N°462 205/84, AS 482018/89
- SDF/B67-04/A/108/1128

Filotex®

ASN-E0270	ASN-E0272	ASN-E0274



PRODUCT REFERENCES

ASN-E0261 CF
ASN-E0264 PF
ASN-E0266 QF
ASN-E0268 RF
ASN-E0270 SJ
ASN-E0272 TK
ASN-E0274 UD

CONSTRUCTION

CORES (ASN-E0261)

SCREEN

Nickel Plated Copper Spinning

SHEATH

2 FEP/POLYIMIDE/FEP Tapes

COLOURED TOPCOAT

FEP (Laser Markable Optional)

NUMBER OF CORES

ASN-E0270 : 1
ASN-E0272 : 2
ASN-E0274 : 3

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

NEXANS CABLE Filotex® PART NUMBER	Nbr of Cores	US AWG	Finished Cable						
			Colours		Maximum DC Resistance at 20°C (68°F)	Diameter (mm)			Maximum Weight
			Cores	Sheath	(Ohms/Km)	Mini.	Nom.	Max.	(g/m)
ASN-E0270 SJ 26 U	1	26	White	White	160	1.13	1.22	1.25	4.30
ASN-E0270 SJ 24 U	1	24		Light Blue	114	1.22	1.31	1.35	5.30
ASN-E0270 SJ 22 U	1	22	Light Green	White	60.0	1.36	1.46	1.52	6.90
ASN-E0270 SJ 20 U	1	20	White	Light Blue	33.2	1.63	1.70	1.80	10.2
ASN-E0270 SJ 18 U	1	18		White	21.1	1.88	1.94	2.05	14.1
ASN-E0270 SJ 16 U	1	16		Light Blue	14.5	2.16	2.22	2.35	19.7
ASN-E0270 SJ 14 U	1	14		White	10.9	2.35	2.47	2.55	24.8
ASN-E0272 TK 26 U	2	26	1 Red 1 Light Blue	White	164	1.88	2.02	2.10	7.60
ASN-E0272 TK 24 U	2	24		Light Blue	117	2.08	2.20	2.30	9.60
ASN-E0272 TK 22 U	2	22		White	64.0	2.38	2.50	2.60	12.7
ASN-E0272 TK 20 U	2	20		Light Blue	34.9	2.90	3.02	3.15	19.9
ASN-E0272 TK 18 U	2	18		White	22.1	3.40	3.50	3.70	27.8
ASN-E0272 TK 16 U	2	16		Light Blue	15.2	3.90	4.02	4.20	38.5
ASN-E0272 TK 14 U	2	14		White	11.2	4.35	4.52	4.75	50.0
ASN-E0272 TK 12 U	2	12		White	7.00	5.25	5.52	5.65	75.0
ASN-E0274 UD 26 U	3	26	1 Red 1 Light Blue 1 Yellow	White	164	2.02	2.14	2.25	10.5
ASN-E0274 UD 24 U	3	24		Light Blue	117	2.25	2.33	2.50	14.0
ASN-E0274 UD 22 U	3	22		White	64.0	2.55	2.65	2.85	18.7
ASN-E0274 UD 20 U	3	20		Light Blue	34.9	3.10	3.21	3.45	29.2
ASN-E0274 UD 18 U	3	18		White	22.1	3.60	3.73	4.00	40.9
ASN-E0274 UD 16 U	3	16		Light Blue	15.2	4.15	4.28	4.55	55.6
ASN-E0274 UD 14 U	3	14		White	11.2	4.88	4.88	5.05	72.6

U = UV Laser Markable

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PFG QFG RFG

Filotex®

200°C Operating Temperature
Flexible Light Weight Cables

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

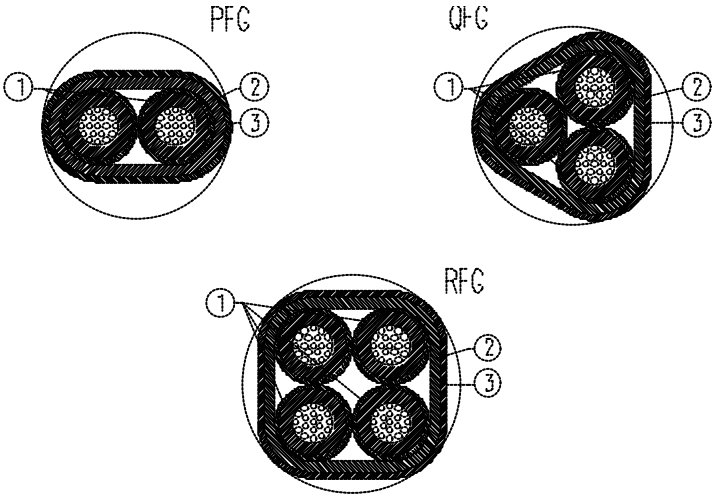
- Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- Colours (cores and jackets): See table on this data sheet
- Wording : On cores: ■ CF ** A FR F ++*
  On Sheaths: ■ PFG ** FR F ++ (Green)
  With : ** = AWG Wire Size
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ++ = Year of Production (ie. 00 = 2000)

Specifications

- AECMA EN 2083 (Conductors)
  EN2266 - 003 (Cores)
  EN2266 - 007 (Cable)
  NSA 935000
  SDF/B67-04/A/108/1128
  EN 3475 - 705 – 706



PRODUCT REFERENCES

CFA
CF-U
PFG QFG RFG
SJB TKB UDB VLB

CONSTRUCTION

CORES
① 2, 3 or 4 CFA elements

SHEATH
② Polyimide tape F2 Type
K ≥ 20 %

③ UV Laser Markable
FEP Top coat

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Nexans

DIMENSIONS AND WEIGHTS

Filotex[a] Part number	Nbr of cores	US AWG	Finished cable					
			Colours		Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Maximum Weight (g/m)
			Cores	Sheaths		Nom.	Max.	
PFG26	2	26	1 Red 1 Blue	White	164.8	1.77	1.87	4.85
PFG24	2	24		Light Blue	117.5	1.97	2.07	6.40
PFG22	2	22		White	61.8	2.27	2.39	9.10
PFG20	2	20		Light Blue	34.2	2.77	2.91	14.90
PFG18	2	18		White	21.8	3.25	3.44	21.80
PFG16	2	16		Light Blue	15	3.75	3.96	30.30
PFG14	2	14		White	11.2	4.23	4.49	40.00
PFG12	2	12		White	6.90	5.19	5.34	62.90
QFG26	3	26	1 Red 1 Blue 1 Yellow	White	164.8	1.89	1.99	7.10
QFG24	3	24		Light Blue	117.5	2.11	2.21	9.30
QFG22	3	22		White	61.8	2.43	2.55	13.35
QFG20	3	20		Light Blue	34.2	2.97	3.12	21.90
QFG18	3	18		White	21.8	3.49	3.68	32.20
QFG16	3	16		Light Blue	15	4.02	4.24	44.90
QFG14	3	14		White	11.2	4.54	4.80	59.40
QFG12	3	12		White	6.90	5.58	5.74	93.60
RFG26	4	26	1 Red 1 Blue 1 Yellow 1 Green	White	164.8	2.10	2.22	9.20
RFG24	4	24		Light Blue	117.5	2.34	2.47	12.15
RFG22	4	22		White	61.8	2.70	2.87	17.55
RFG20	4	20		Light Blue	34.8	3.30	3.50	28.90
RFG18	4	18		White	21.8	3.88	4.15	42.60
RFG16	4	16		Light Blue	15	4.49	4.75	59.50
RFG14	4	14		White	11.2	5.07	5.40	78.80

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AEROSPACE

SJB TKB UDB VLB

Filotex®

200°C Operating Temperature
Flexible Light Weight Cables

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- Colours (cores and jackets): See table on this data sheet
- Wording : On cores: ■ CF ** A FR F ++*
  On Sheaths: ■ SJB ** FR F ++ (Green)
  With : ** = AWG Wire Size
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ++ = Year of Production (ie. 00 = 2000)

Specifications

- AECMA EN 2083 (Conductors)
  EN2266 - 003 (Cores)
  NSA 935000
  EN 2713 – 011
  SDF/B67-04/A/108/1128

PRODUCT REFERENCES

CFA
CF-U
PFG QFG RFG
SJB TKB UDB VLB

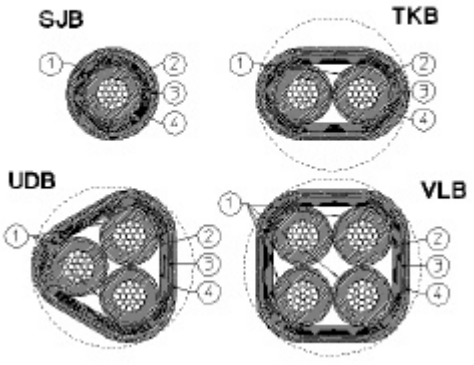
CONSTRUCTION

CORES
① 1, 2, 3 or 4 CFA elements
PTFE Topcoat

SCREEN
② Silver plated copper helicoidal screen

SHEATH
③ Polyimide tape F1 Type

④ UV Laser Markable
FEP Top coat



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DIMENSIONS AND WEIGHTS

Filotex® Part number	Nbr of cores	US AWG	Diameter Spinning (mm)	Finished cable					
				Colours		Maximum DC resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Maximum weight (g/m)
				Cores	Sheaths		Nom.	Max.	
SJB26	1	26		White	White	160	1.16	1.22	4.15
SJB24	1	24		White	Light blue	114	1.26	1.32	5.15
SJB22	1	22	0.08	Vert Pâle	White	60	1.41	1.48	6.70
SJB20	1	20		White	Light blue	33.2	1.66	1.74	10.00
SJB18	1	18		White	White	21.1	1.90	1.98	13.85
SJB16	1	16		White	Light blue	14.5	2.19	2.28	19.45
SJB14	1	14	0.10	White	White	10.9	2.43	2.53	24.70
SJB12	1	12		White	White	6.8	2.91	3.00	36.80
SJB10	1	10		White	White	4.1	3.53	3.64	57.00
TKB26	2	26			White	164.8	1.95	2.05	7.40
TKB24	2	24	0.08		Light blue	117.5	2.15	2.26	9.20
TKB22	2	22		1 Red	White	61.8	2.45	2.57	12.35
TKB20	2	20	0.10	1 Blue	Light blue	34.2	2.99	3.14	19.80
TKB18	2	18			White	21.8	3.47	3.63	27.60
TKB16	2	16	0.12		Light blue	15	4.01	4.17	38.30
TKB14	2	14			White	11.2	4.49	4.67	49.80
UDB26	3	26			White	164.8	2.07	2.18	10.20
UDB24	3	24	0.08		Light blue	117.5	2.29	2.40	12.60
UDB22	3	22		1 Red	White	61.8	2.61	2.74	17.20
UDB20	3	20	0.10	1 Blue	Light blue	34.2	3.19	3.35	27.70
UDB18	3	18		1 Yellow	White	21.8	3.71	3.87	39.00
UDB16	3	16	0.12		Light blue	15	4.29	4.46	54.70
UDB14	3	14	0.15		White	11.2	4.86	5.06	72.70
UDB12	3	12			White	6.98	5.98	6.16	110.82
VLB26	4	26	0.08		White	164.8	2.28	2.39	13.10
VLB24	4	24		1 Red	Light blue	117.5	2.52	2.64	16.50
VLB22	4	22	0.10	1 Blue	White	61.8	2.92	3.07	23.70
VLB20	4	20		1 Yellow	Light blue	34.2	3.52	3.70	36.40
VLB18	4	18	0.12	1 Green	White	21.8	4.14	4.31	52.90
VLB16	4	16			Light blue	15	4.75	4.94	71.4

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AEROSPACE

EN 2267-008A

Filotex®

Single UV Laser printable 260°C Operating Temperature Medium Weight Arc Tracking Resistant Cables

Applications

- Designed for general Purpose Aircraft Wiring Applications.

PRODUCT REFERENCES

EN 2267-007A
EN 2267-008A +++

Main data

- Operating temperature : -55°C to +260°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant
- Arc Tracking Resistant

CONSTRUCTION

CONDUCTOR

① Stranded Conductor : Nickel Plated High Strength Copper Alloy (AWG 26 & 24) or Nickel Plated Copper (AWG 22 to 6).

INSULATION

② FEP/POLYIMIDE/FEP Tape

③ UV PTFE Tape(s)

- Wire Standard
  Colour : White Except AWG 26 Which is Light Yellow and AWG 22 Which is Light Green.
- Marking :
  Colour : Green (Single core)
  White on red and dark green wires (Multicore)
  Wording : EN DM ** FRF++
  With : ** = AWG Wire Size
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ++ = Year of Manufacturing (ie. 01 = 2001)

Specifications

- prEN2267-008 for Wires
- prEN4434 for Conductors
- prEN3475 for Tests & Performances

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal Section	Colour Code	US AWG	Conductor			Finished Wire				
				Stranding (Nbr x Dia. of Strands in mm)	Diameter		Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter		Weight	
					Mini. (mm)	Max. (mm)		Mini. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
EN 2267-008A	001	S	26	19 x 0.100	0.45	0.49	160.0	0.85	0.97	2.35	2.45
EN 2267-008A	002	P	24	19 x 0.120	0.55	0.60	114.0	0.90	1.04	2.93	3.10
EN 2267-008A	004	P	22	19 x 0.150	0.70	0.75	60.0	1.05	1.19	4.20	4.43
EN 2267-008A	006	P	20	19 x 0.200	0.94	1.00	33.2	1.38	1.53	7.33	7.73
EN 2267-008A	010	P	18	19 x 0.250	1.18	1.25	21.1	1.65	1.82	11.06	11.74
EN 2267-008A	012	P	16	19 x 0.300	1.39	1.50	14.5	2.02	2.22	16.19	16.95
EN 2267-008A	020	P	14	37 x 0.250	1.68	1.75	10.9	2.29	2.49	21.01	22.65
EN 2267-008A	030	P	12	37 x 0.320	2.12	2.20	6.8	2.73	2.97	32.72	33.70
EN 2267-008A	051	P	10	61 x 0.320	2.72	2.83	4.1	3.33	3.61	51.54	53.10
EN 2267-008A	090	P	8	127 x 0.300	-	4.20	2.3	4.47	4.77	92.29	95.60
EN 2267-008A	140	P	6	27 x 7 x 0.300	-	5.40	1.58	5.70	6.30	138.10	141.40

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AEROSPACE

EN 2267-007

Filotex®

Unscreened and Unjacketed multicores
260°C Operating Temperature

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -55°C to +260°C.(Ambient. + Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification

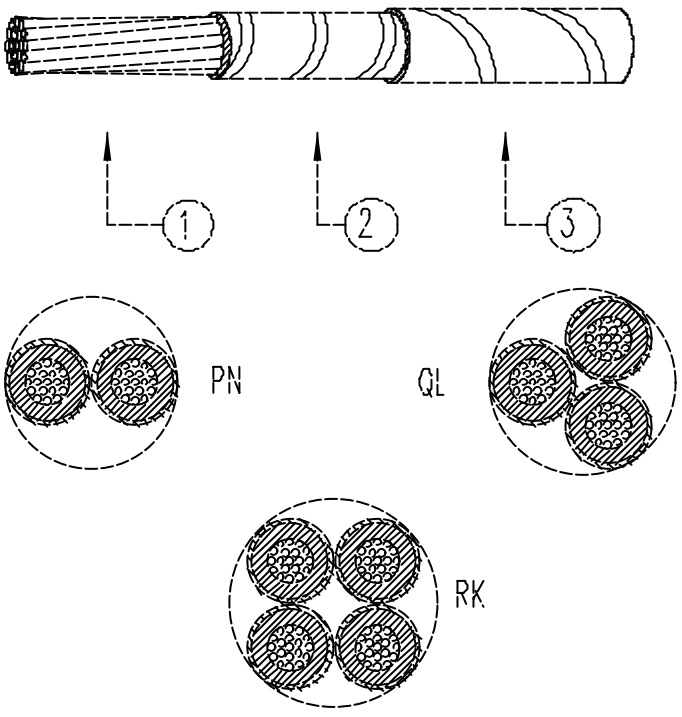
- Core Colours
- Marking : see next pages on this data sheet

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- prEN 4434 for conductors
- prEN 2267-007 for cables



PRODUCT REFERENCES

EN 2267-007A

EN 2267-007* +++P

CONSTRUCTION

CONDUCTOR

① Stranded Conductor Made up of Nickel Coated High Strength Copper Alloy for AWG 26 and 24.

Stranded Conductor Made up of Nickel Coated Copper for all others AWG

INSULATION

② FEP / POLYIMIDE / FEP Tape

③ PTFE Tape

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Finished Cable					
					Colours Cores	Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
							Min.	Max.	Nom.	Max.
EN 2267-007B	001	P	26	2	1 Red 1 Blue	165	1.73	1.93	4.79	5.03
EN 2267-007B	002	P	24	2		117	1.84	2.06	5.98	6.31
EN 2267-007B	004	P	22	2		61.7	2.13	2.37	8.57	9.03
EN 2267-007B	006	P	20	2		34.1	2.77	3.07	14.95	15.75
EN 2267-007B	010	P	18	2		21.7	3.36	3.64	22.56	23.93
EN 2267-007B	012	P	16	2		14.9	4.09	4.44	33.03	34.55
EN 2267-007B	020	P	14	2		11.2	4.57	4.97	42.86	46.16
EN 2267-007B	030	P	12	2		6.99	5.55	5.92	66.34	68.62
EN 2267-007B	051	P	10	2		4.22	6.62	7.12	104.65	108.10
EN 2267-007B	090	P	8	2		2.37	8.90	9.46	188.27	193.92
EN 2267-007B	140	P	6	2		1.63	11.35	12.05	281.72	290.18
EN 2267-007C	001	P	26	3	1 Red 1 Blue 1 Yellow	165	1.86	2.08	7.19	7.55
EN 2267-007C	002	P	24	3		117	1.99	2.22	8.97	9.50
EN 2267-007C	004	P	22	3		61.7	2.29	2.55	12.85	13.60
EN 2267-007C	006	P	20	3		34.1	2.99	3.30	22.43	23.70
EN 2267-007C	010	P	18	3		21.7	3.62	3.92	33.84	35.99
EN 2267-007C	012	P	16	3		14.9	4.41	4.78	49.54	51.96
EN 2267-007C	020	P	14	3		11.2	4.92	5.35	64.29	68.43
EN 2267-007C	030	P	12	3		6.99	5.98	6.37	99.51	103.21
EN 2267-007C	051	P	10	3		4.22	7.13	7.67	156.98	162.65
EN 2267-007C	090	P	8	3		2.37	9.59	10.19	282.41	290.88
EN 2267-007C	140	P	6	3		1.63	12.23	12.98	422.59	435.26
EN 2267-007D	001	P	26	4	1 Red 1 Blue 1 Yellow 1 Green	165	2.09	2.33	9.59	10.07
EN 2267-007D	002	P	24	4		117	2.22	2.49	11.95	12.72
EN 2267-007D	004	P	22	4		61.7	2.57	2.86	17.14	18.18
EN 2267-007D	006	P	20	4		34.1	3.35	3.70	29.91	31.70
EN 2267-007D	010	P	18	4		21.7	4.06	4.39	45.12	48.18
EN 2267-007D	012	P	16	4		14.9	4.94	5.36	66.06	69.56
EN 2267-007D	020	P	14	4		11.2	5.52	6.00	85.72	92.96
EN 2267-007D	030	P	12	4		6.99	6.70	7.14	132.68	138.18
EN 2267-007D	051	P	10	4		4.22	7.98	8.60	208.69	217.77
EN 2267-007D	090	P	8	4		2.37	10.75	11.41	376.54	387.84
EN 2267-007D	140	P	6	4		1.63	13.70	14.55	563.45	580.35

Core identification Colours :

- ❒ Two cores (PN) : Red - Blue
- ❒ Three cores (QL) : Red - Blue - Yellow
- ❒ Four cores (RK) : Red - Blue - Yellow – Green

Marking : EN DM A ++ FRF**

++ = AGW F = Manufacturer (F = Filotex®)

FR = Country of Origin (FR = France) ** = Year of manufacturing (i.e. 99=1999)

Cable identification :

- ❒ Two cores : EN 2267-007B (Short designation PN)
- ❒ Three cores : EN 2267-007C (Short designation QL)
- ❒ Four cores : EN 2267-007D (Short designation RK)

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AEROSPACE

EN 2714-011

Filotex®

Screened and Jacketed single and multicores UV Laser printable 260°C Operating Temperature

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

Identification

- Core Colours
- Jacket Colours and
- Marking : see next pages on this data sheet

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- prEN 4434 for conductors
- prEN 2267-007A for cores
- prEN 2714-011 for Screened and Jacketed single and multicores

PRODUCT REFERENCES

EN 2267-007A
EN 2267-008A
EN 2714-011*+++F

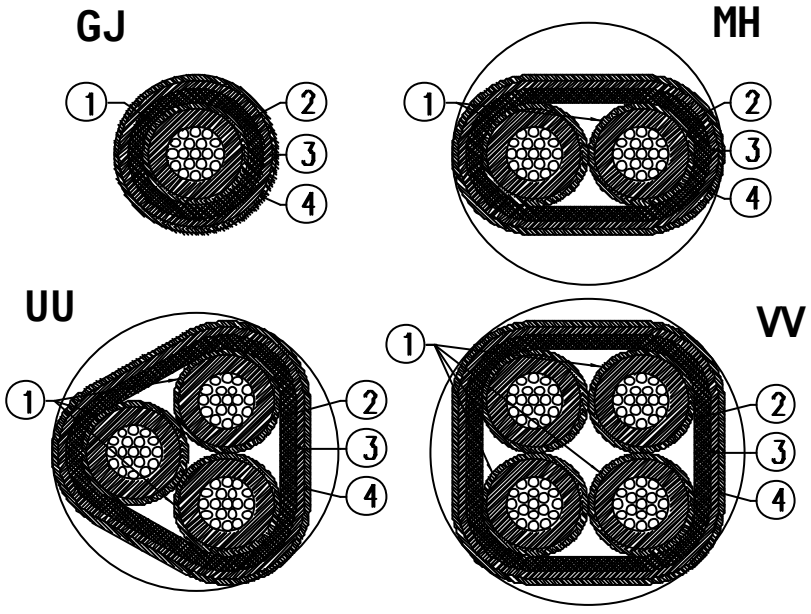
CONSTRUCTION

CORES
① 1, 2, 3 or 4 Cores EN 2267-007A

SCREEN
② Nickel-plated copper spiral screen

JACKET
③ Polyimide Tape

④ UV PTFE Tape



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DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
						Colours		Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
						Cores	Jacket		Nom.	Max.	Nom.	Max.
EN 2714-011A	001	F	26	1	0.08	Light yellow	White	160	1.40	1.47	5.27	5.63
EN 2714-011A	002	F	24	1	0.08	White	Light blue	114	1.46	1.53	6.01	6.44
EN 2714-011A	004	F	22	1	0.08	Light green	White	60	1.61	1.69	7.68	8.19
EN 2714-011A	006	F	20	1	0.08	White	Light blue	33.2	1.95	2.05	11.71	12.42
EN 2714-011A	010	F	18	1	0.08	White	White	21.1	2.24	2.33	16.21	17.28
EN 2714-011A	012	F	16	1	0.10	White	Light blue	14.5	2.66	2.77	23.32	24.57
EN 2714-011A	020	F	14	1	0.10	White	White	10.9	2.91	3.03	28.90	31.16
EN 2714-011A	030	F	12	1	0.10	White	White	6.8	3.41	3.49	42.14	43.63
EN 2714-011A	051	F	10	1	0.12	White	White	4.1	4.07	4.13	64.40	66.65
EN 2714-011B	001	F	26	2	0.08		White	165	2.31	2.43	9.25	9.78
EN 2714-011B	002	F	24	2	0.08		Light blue	117	2.43	2.55	10.69	11.35
EN 2714-011B	004	F	22	2	0.08		White	61.7	2.73	2.87	13.93	14.75
EN 2714-011B	006	F	20	2	0.10	1 Red	Light blue	34.1	3.45	3.62	22.87	24.10
EN 2714-011B	010	F	18	2	0.10	1 Blue	White	21.7	4.03	4.19	31.93	33.67
EN 2714-011B	012	F	16	2	0.12		Light blue	14.9	4.83	5.02	45.84	47.76
EN 2714-011B	020	F	14	2	0.15		White	11.2	5.39	5.61	59.67	63.64
EN 2714-011B	030	F	12	2	0.20		White	6.99	6.49	6.65	92.10	94.47
EN 2714-011B	051	F	10	2	0.20		White	4.22	7.73	7.87	135.04	139.07
EN 2714-011C	001	F	26	3	0.08		White	165	2.45	2.57	12.41	13.07
EN 2714-011C	002	F	24	3	0.10		Light blue	117	2.62	2.75	15.38	16.36
EN 2714-011C	004	F	22	3	0.10	1 Red	White	61.7	2.94	3.09	20.16	21.33
EN 2714-011C	006	F	20	3	0.12	1 Blue	Light blue	34.1	3.72	3.90	33.05	34.73
EN 2714-011C	010	F	18	3	0.12	1 Yellow	White	21.7	4.34	4.51	46.43	49.00
EN 2714-011C	012	F	16	3	0.15		Light blue	14.9	5.22	5.43	67.44	70.38
EN 2714-011C	020	F	14	3	0.15		White	11.2	5.76	5.99	84.18	89.85
EN 2714-011C	030	F	12	3	0.20		White	6.99	6.89	7.10	129.32	133.30
EN 2714-011C	051	F	10	3	0.20		White	4.22	8.23	8.40	192.93	198.55
EN 2714-011D	001	F	26	4	0.10		White	165	2.73	2.86	16.53	17.45
EN 2714-011D	002	F	24	4	0.10		Light blue	117	2.87	3.02	19.31	20.46
EN 2714-011D	004	F	22	4	0.10	1 Red	White	61.7	3.23	3.39	25.53	26.98
EN 2714-011D	006	F	20	4	0.12	1 Blue	Light blue	34.1	4.09	4.30	42.14	44.37
EN 2714-011D	010	F	18	4	0.12	1 Yellow	White	21.7	4.79	4.99	59.63	62.90
EN 2714-011D	012	F	16	4	0.15	1 Green	Light blue	14.9	5.77	6.00	86.71	90.48
EN 2714-011D	020	F	14	4	0.20		White	11.2	6.47	6.73	114.61	122.32

Core identification Colours :

- One core (GJ) : White except code 001 : Light Yellow and code 004 : Light Green
- Two cores (MH) : Red - Blue
- Three cores (UU) : Red - Blue - Yellow
- Four cores (VV) : Red - Blue - Yellow – Green

Marking : EN DMA ++ FRF**

Jacket identification : White except code 002/006/012 : Light Blue

Marking : EN xx ++ FRF**

xx = Short designation (GJ, MH, UU, VV) F = Manufacturer (F = Filotex®)

++ = Awg ** = Year of manufacturing (ie. 99=1999)

FR = Country of Origin (FR = France)

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Nexans

AEROSPACE

EN 2267-010A

Filotex®

UV Laser printable Wire
260°C Operating Temperature Light Weight
Arc Tracking Resistant

Applications

- Designed for general Purpose Aircraft Wiring Applications.

PRODUCT REFERENCES

EN 2267-009A
EN 2267-010A +++

Main data

- Operating temperature : -55°C to +260°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant
- Arc Tracking Resistant

CONSTRUCTION

CONDUCTOR

① Stranded Conductor : Nickel Plated High Strength Copper Alloy (AWG 26 & 24) or Nickel Plated Copper (AWG 22 to 2).

INSULATION

② Special Polyimide Tape
③ Special UV PTFE Tape(s)

Identification

- Wire Standard
  Colour : White Except AWG 26 Which is Light Yellow and AWG 22 Which is Light Green.
- Marking : EN DR ** FRF++
  With : ** = AWG Wire Size
  DR = Short designation
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ++ = Year of Manufacturing (ie. 02 = 2002)
  Colour : Green

Specifications

- prEN2267-010 product standard
- prEN4434 for Conductors AWG 26 to 6
- prEN2083 for Conductors AWG 4 to 2
- prEN3475 for Tests & Performances

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DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal Section	Colour Code	US AWG	Conductor			Finished Wire				
				Stranding (Nbr x Dia. of Strands in mm)	Diameter		Maximum DC Resistance at 20°C (68°F)	Diameter		Weight	
					Mini. (mm)	Max. (mm)	(Ohms/Km)	Mini. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
EN 2267-010A	001	S	26	19 x 0.100	0.47	0.49	160.0	0.75	0.84	1.95	2.08
EN 2267-010A	002	S	24	19 x 0.120	0.555	0.585	114.0	0.85	0.96	2.64	2.72
EN 2267-010A	004	S	22	19 x 0.150	0.71	0.73	60.0	1.00	1.10	3.89	4.14
EN 2267-010A	006	S	20	19 x 0.200	0.94	0.97	33.2	1.22	1.34	6.57	6.85
EN 2267-010A	010	S	18	19 x 0.250	1.19	1.22	21.1	1.46	1.61	10.15	10.43
EN 2267-010A	012	S	16	19 x 0.300	1.41	1.45	14.5	1.76	1.92	14.05	14.61
EN 2267-010A	020	S	14	37 x 0.250	1.69	1.73	10.9	2.04	2.24	19.31	19.78
EN 2267-010A	030	S	12	37 x 0.320	2.13	2.18	6.8	2.50	2.70	29.25	31.33
EN 2267-010A	051	S	10	61 x 0.320	2.73	2.77	4.1	3.13	3.33	47.37	49.85
EN 2267-010A	090	S	8	127 x 0.300	3.55	3.85	2.3	4.10	4.40	87.81	90.00
EN 2267-010A	140	S	6	27 x 7 x 0.300	4.80	5.20	1.58	5.30	5.70	132.41	135.00
EN 2267-010A	220	S	4	37 x 12 x 0.250	-	6.80	0.97	6.71	7.41	215.15	222.00
EN 2267-010A	340	S	2	37 x 19 x 0.250	-	8.60	0.61	8.28	9.16	336.10	347.00

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AEROSPACE

EN 2267-009

Filotex®

Multicores DRA

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Arc Tracking Resistant

PRODUCT REFERENCES

EN 2267-009* +++P

Applications

- Designed for general Purpose Aircraft Wiring Applications

CONSTRUCTION

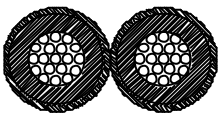
CORES

2, 3 or 4 Cores
EN 2267-009A

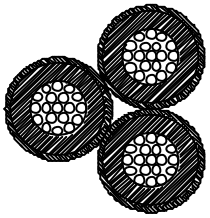
Specifications

- prEN2267-009 Product Standard
- prEN2267-002 General Specification

DRB



DRC



DRD

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DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Finished Wire					
					Colours Cores	Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
							Nom.	Max.	Nom.	Max.
EN 2267-009B	001	P	26	2		165	1.56	1.68	3.98	4.28
EN 2267-009B	002	P	24	2		117	1.82	1.92	5.39	5.60
EN 2267-009B	004	P	22	2		61.7	2.10	2.20	7.94	8.53
EN 2267-009B	006	P	20	2		34.1	2.60	2.68	13.40	14.11
EN 2267-009B	010	P	18	2		21.7	3.08	3.22	20.71	21.49
EN 2267-009B	012	P	16	2	1 Red	14.9	3.66	3.84	28.66	30.10
EN 2267-009B	020	P	14	2	1 Blue	11.2	4.32	4.48	39.39	40.75
EN 2267-009B	030	P	12	2		6.99	5.14	5.40	59.67	64.54
EN 2267-009B	051	P	10	2		4.22	6.42	6.66	96.63	102.69
EN 2267-009B	090	P	8	2		2.37	8.60	8.80	179.13	185.40
EN 2267-009B	140	P	6	2		1.63	11.10	11.40	270.12	278.10
EN 2267-009B	220	P	4	2		1	14.12	14.82	438.91	457.32
EN 2267-009C	001	P	26	3		165	1.68	1.81	5.97	6.43
EN 2267-009C	002	P	24	3		117	1.96	2.06	8.08	8.40
EN 2267-009C	004	P	22	3		61.7	2.26	2.37	11.90	12.79
EN 2267-009C	006	P	20	3		34.1	2.80	2.88	20.10	21.17
EN 2267-009C	010	P	18	3	1 Red	21.7	3.32	3.46	31.06	32.23
EN 2267-009C	012	P	16	3	1 Blue	14.9	3.94	4.13	42.99	45.14
EN 2267-009C	020	P	14	3	1 Yellow	11.2	4.65	4.82	59.09	61.12
EN 2267-009C	030	P	12	3		6.99	5.54	5.81	89.50	96.81
EN 2267-009C	051	P	10	3		4.22	6.92	7.16	144.95	154.04
EN 2267-009C	090	P	8	3		2.37	9.27	9.46	268.7	278.10
EN 2267-009C	140	P	6	3		1.63	11.96	12.26	405.17	417.15
EN 2267-009C	220	P	4	3		1	15.21	15.93	658.36	685.98
EN 2267-009D	001	P	26	4		165	1.88	2.02	7.96	8.57
EN 2267-009D	002	P	24	4		117	2.20	2.30	10.77	11.21
EN 2267-009D	004	P	22	4		61.7	2.53	2.64	15.87	17.06
EN 2267-009D	006	P	20	4		34.1	3.14	3.22	26.81	28.22
EN 2267-009D	010	P	18	4	1 Red	21.7	3.72	3.86	41.41	42.97
EN 2267-009D	012	P	16	4	1 Blue	14.9	4.42	4.61	57.32	60.19
EN 2267-009D	020	P	14	4	1 Yellow	11.2	5.21	5.38	78.78	81.49
EN 2267-009D	030	P	12	4	1 Green	6.99	6.20	6.48	119.34	129.08
EN 2267-009D	051	P	10	4		4.22	7.75	7.99	193.27	205.38
EN 2267-009D	090	P	8	4		2.37	10.38	10.56	358.26	370.80
EN 2267-009D	140	P	6	4		1.63	13.40	13.68	540.23	556.20
EN 2267-009D	220	P	4	4		1	17.04	17.78	877.81	914.64

Core identification Colours :

- ❒ Two cores (DRB) : Red - Blue
- ❒ Three cores (DRC) : Red - Blue - Yellow
- ❒ Four cores (DRD) : Red - Blue - Yellow – Green

Marking : EN DRA ** FRF++

Colour : White for Red and Green core.
Green for Blue and Yellow core.

With : ** = AWG Wire Size
DRA = Short designation
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
++ = Year of Manufacturing (ie. 03 = 2003)

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AEROSPACE

EN 2714-013

Filotex®

260 °C, S/J, Light Weight , UV Arc Tracking Resistant

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification

- Core Colours
- Jacket Colours and
- Marking : see next pages on this data sheet

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- prEN 4434 for conductors
- prEN 2267-009 for cores
- prEN 2714-013 for Screened and Jacketed single and multicores

PRODUCT REFERENCES

EN 2267-009A
EN 2267-010A
EN 2714-013* +++F

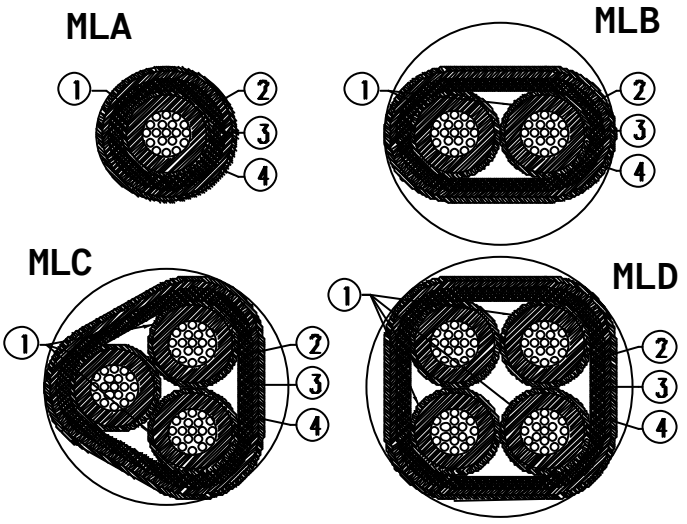
CONSTRUCTION

CORES
① 1, 2, 3 or 4 Cores EN 2267-009A

SCREEN
② Nickel-plated copper spiral screen

JACKET
③ Polyimide Tape

④ UV PTFE Tape



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DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
						Colours		Maximum DC Resistance at 20°C (68°K) (Ohms/Km)	Diameter (mm)		Weight (g/m)	
						Cores	Jacket		Nom.	Max.	Nom.	Max.
EN 2714-013A	001	F	26	1	0.08	Light yellow	White	160	1.23	1.31	4.35	4.68
EN 2714-013A	002	F	24	1	0.08	White	Light blue	114	1.36	1.45	5.37	5.76
EN 2714-013A	004	F	22	1	0.08	Light green	White	60	1.50	1.60	6.97	7.51
EN 2714-013A	006	F	20	1	0.08	White	Light blue	33.2	1.75	1.84	10.28	10.77
EN 2714-013A	010	F	18	1	0.08	White	White	21.1	1.99	2.08	14.47	14.97
EN 2714-013A	012	F	16	1	0.10	White	Light blue	14.5	2.32	2.43	19.95	20.97
EN 2714-013A	020	F	14	1	0.10	White	White	10.9	2.65	2.74	26.17	27.03
EN 2714-013A	030	F	12	1	0.10	White	White	6.8	3.06	3.20	37.31	39.70
EN 2714-013A	051	F	10	1	0.12	White	White	4.1	3.74	3.89	58.72	61.94
EN 2714-013B	001	F	26	2	0.08		White	165	2.01	2.13	7.63	8.17
EN 2714-013B	002	F	24	2	0.08		Light blue	117	2.27	2.40	9.58	10.23
EN 2714-013B	004	F	22	2	0.08		White	61.7	2.55	2.70	12.70	13.64
EN 2714-013B	006	F	20	2	0.10	1 Red	Light blue	34.1	3.09	3.22	20.17	21.05
EN 2714-013B	010	F	18	2	0.10	1 Blue	White	21.7	3.57	3.71	28.62	29.52
EN 2714-013B	012	F	16	2	0.12		Light blue	14.9	4.19	4.38	39.30	41.20
EN 2714-013B	020	F	14	2	0.15		White	11.2	4.91	5.04	54.19	55.83
EN 2714-013B	030	F	12	2	0.20		White	6.99	5.83	6.09	81.80	86.79
EN 2714-013B	051	F	10	2	0.20		White	4.22	7.11	7.39	123.94	130.51
EN 2714-013C	001	F	26	3	0.08		White	165	2.13	2.26	10.25	10.94
EN 2714-013C	002	F	24	3	0.10		Light blue	117	2.45	2.59	13.83	14.72
EN 2714-013C	004	F	22	3	0.10	1 Red	White	61.7	2.75	2.91	18.45	19.76
EN 2714-013C	006	F	20	3	0.12	1 Blue	Light blue	34.1	3.33	3.48	29.23	30.44
EN 2714-013C	010	F	18	3	0.12	1 Yellow	White	21.7	3.85	4.00	41.75	42.96
EN 2714-013C	012	F	16	3	0.15		Light blue	14.9	4.53	4.73	57.96	60.67
EN 2714-013C	020	F	14	3	0.15		White	11.2	5.25	5.39	76.59	78.83
EN 2714-013C	030	F	12	3	0.20		White	6.99	6.23	6.50	115.68	122.72
EN 2714-013C	051	F	10	3	0.20		White	4.22	7.61	7.90	177.31	186.69
EN 2714-013D	001	F	26	4	0.10		White	165	2.37	2.51	13.69	14.57
EN 2714-013D	002	F	24	4	0.10	1 Red	Light blue	117	2.69	2.84	17.37	18.47
EN 2714-013D	004	F	22	4	0.10	1 Blue	White	61.7	3.03	3.19	23.4	25.04
EN 2714-013D	006	F	20	4	0.12	1 Yellow	Light blue	34.1	3.67	3.82	37.31	38.81
EN 2714-013D	010	F	18	4	0.12	1 Green	White	21.7	4.25	4.41	53.73	55.22
EN 2714-013D	012	F	16	4	0.15		Light blue	14.9	5.01	5.23	74.58	78.02
EN 2714-013D	020	F	14	4	0.20		White	11.2	5.91	6.06	104.39	107.36

Core identification Colours :

- One core (MLA) : White except code 001 : Light Yellow code 004 : Light Green
- Two cores (MLB) : Red - Blue
- Three cores (MLC) : Red - Blue - Yellow
- Four cores (MLD) : Red - Blue - Yellow – Green

Marking : EN DRA ++ FRF**
Colour : White for Red and Green core. Green for Blue and Yellow core.

Jacket identification : White except code 002/006/012 : Light Blue
Marking : EN xxx ++ FRF** Colour : Green
xxx = Short designation (MLA, MLB, MLC, MLD) ++ = Awg
FR = Country of Origin (FR = France) F = Manufacturer (F = Filotex®)
** = Year of manufacturing (ie. 02 = 2002)

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AEROSPACE

EN 2714-014

Filotex®

260 °C, S/J, Light Weight , UV Arc Tracking Resistant

Characteristics

- Voltage rating : 600 Volts RMS.
- Operating temperature : -55°C to +260°C.(Ambient.+ Rise.)
- Operating frequency : up to 2000 Hz
- Dimensions and weights : see table on this data sheet
- Very Good Resistance to Aircraft Fluids
- Arc Tracking Resistant

Identification

- Core Colours
- Jacket Colours and Marking : see next pages on this data sheet

Applications

- Designed for general Purpose Aircraft Wiring Applications

Specifications

- prEN 4434 for conductors
- prEN 2267-009 for cores
- prEN 2714-014 for Screened and Jacketed multicores

PRODUCT REFERENCES

EN 2267-009A
EN 2267-010A
EN 2714-014* +++£

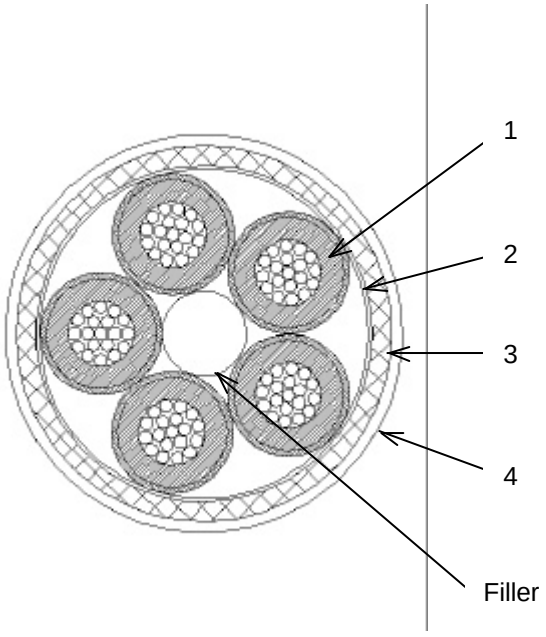
CONSTRUCTION

CORES
① Cores EN 2267-009A

② Polyimide Tape

SCREEN
③ Nickel plated copper braid

JACKET
④ Polyimide Tape
UV PTFE Tape



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DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	Code of Nominal section	Colour Code	US AWG	Nbr of Cores	Screen strands nominal diameter (mm)	Finished Wire						
						Colours		Maximum DC Resistance at	Diameter		Weight	
						Cores	Jacket	20°C (68°K) (Ohms/Km)	(mm) Nom.	(mm) Max.	(g/m) Nom.	(g/m) Max.
EN 2714-014E	010	J	18	5	0.12	1 White	White	21.7	5.03	5.26	73.22	76.0
EN 2714-014E	012	J	16	5	0.12	1 Blue	Light blue	14.9	5.82	6.10	97.31	102.2
EN 2714-014E	020	J	14	5	0.12	1 Yellow 1 Red 1 Green	White	11.2	6.71	7.05	128.62	135.0
EN 2714-014E	030	H	12	5	0.15	1 Black 1 Blue 1 Yellow 1 Red 1 Green	Light blue	6.99	7.94	8.41	191.30	205.6
EN 2714-014G	002	G	24	7	0.12	1 Red 1 Blue 1 Yellow 1 Green 1 White 1 Black 1 Brown	White	117	3.61	3.80	32.96	34.60

Core Colours :

- ❒ Five cores (MME) : (Code H) Black – Blue – Yellow - Red – Green
  (Code J) White – Blue – Yellow - Red – Green
- ❒ Seven cores (MMG), : (Code G) Red - Blue – Yellow – Green – White – Black - Brown

Marking : EN DRA ++ FRF**
Colour : White for Black / Red / Brown and Green core.
Green for Blue / Yellow and White core.

Jacket Colours :

See table.

Marking : EN xxx ++ FRF**
Colour : Green

xxx = Short designation (MME, MMG)
++ = Awg
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
** = Year of manufacturing (ie. 02 = 2002)

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Part 2

Cables for power transmission

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AEROSPACE

BMS 13-35

Filotex®

Polyimide Insulated Aluminium Wire

PRODUCT REFERENCES

BMS 13-35
BMS

Applications

- Aircraft.

Specifications

- BMS 13-35 dated 23 December 1992,
- MIL-W-7072.

CONSTRUCTION

CONDUCTOR
① Stranded Aluminium conductor.

INSULATION
② Polyimide Tapes 100 per cent fused together.

③ Glass fiber braid (Aromatic Polyimide 200 denier).

Characteristics

- Voltage rating : 600 Volts RMS,
- Low operating temperature : -65 °C,
- Temperature rating :+177 °C,
- Dimensions and weight : see table on reverse of this datasheet,
- Dimensions and weight : see table on reverse of this data sheet,
- Flexible cables, large gauge,
- Low density,
- Good resistance to aircraft fluids.

Filotex® BMS 13-35

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Nexans

PHYSICAL DETAILS OF CONDUCTOR (Metric Units)

US AWG	Nominal Conductor Area (mm2)	Number of Strands						Diameter (mm)		Max Resistance at 20°C (68°F) (Ohms/Km).
		Core	Layer					Min.	Max.	
			1	2	3	4	5			
8	8.4	41 x 0.51						4.37	5.00	3.59
6	14.3	14 x 0.51	8x7x 0.51					5.66	6.30	2.10
4	21.9	37 x 0.51	10x7x0.51					6.86	7.59	1.40
2	34.3	14 x 0.51	8x7x 0.51	14x7x0.51				8.43	9.32	0.88
1	44.7	37 x 0.51	10x7x0.51	16x7x0.51				9.40	10.29	0.70
1/0	52.9	7 x 0.51	6x7x0.51	12x7x0.51	18x7x0.51			10.67	11.56	0.55
2/0	68.2	7 x 0.51	6x7x0.51	12x7x0.51	18x5x0.51	21x7x0.51		12.09	13.08	0.44
3/0	87.2	7 x 0.51	6x7x0.51	12x7x0.51	18x7x0.51	24x7x0.51		13.54	14.53	0.36
4/0	106.8	7 x 0.51	6x7x0.51	12x7x0.51	18x5x0.51	21x7x0.51	27x7x0.51	14.86	15.85	0.28

Type I DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBER	US AWG	Outside Diameter		Maximum Weight
		Min. (mm)	Max. (mm)	(Kg/Km)
BMS 13-35 T I C1 G.8	8	4.37	5.00	39.4
BMS 13-35 T I C1 G.6	6	5.66	6.30	58.0
BMS 13-35 T I C1 G.4	4	6.86	7.59	87.8
BMS 13-35 T I C1 G.2	2	8.43	9.32	133.2
BMS 13-35 T I C1 G.1	1	9.40	10.29	168.1
BMS 13-35 T I C1 G.1/0	1/0	10.67	11.56	197.9
BMS 13-35 T I C1 G.2/0	2/0	12.09	13.08	254.5
BMS 13-35 T I C1 G.3/0	3/0	13.54	14.53	337.8
BMS 13-35 T I C1 G.4/0	4/0	14.86	15.85	424.1

Type II DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBER	US AWG	Outside Diameter		Maximum Weight
		Min. (mm)	Max. (mm)	(Kg/Km)
BMS 13-35 T II C1 G.8	8	4.57	5.56	44.6
BMS 13-35 T II C1 G.6	6	5.84	6.86	64.0
BMS 13-35 T II C1 G.4	4	7.04	8.15	95.2
BMS 13-35 T II C1 G.2	2	8.64	9.88	142.9
BMS 13-35 T II C1 G.1	1	9.60	10.85	178.6
BMS 13-35 T II C1 G.1/0	1/0	10.85	12.12	211.3
BMS 13-35 T II C1 G.2/0	2/0	12.27	13.64	269.3
BMS 13-35 T II C1 G.3/0	3/0	13.72	15.09	354.1
BMS 13-35 T II C1 G.4/0	4/0	15.04	16.41	441.9

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AEROSPACE

Filotex® Type ASNE0438
180°C Operating Temperature
(up to 200°C Peak)

Filotex®

Flexible Nickel Plated Aluminium Light Weight Wires
Single Core Large Sizes

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +180°C.(Ambiant + Rise)
  (up to + 200°C Peak)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Conductor Construction : AECMA EN 3719 Specification
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- By Colored Threads Between Polyimide Tapes and External Braid
  1, 2 or 3 Threads for Manufacturer : i.e. Black + Grey = Filotex®
  2 Treads for Year of
  Manufacturing : i.e. Blue + Orange = 2000
- Wires Size AWG 06, 03, 01, 00 and 0000 are identified with 1 black carrier in the external Aromatic Polyamide braid

Specifications

- AECMA EN 3719 (Conductors)
- ASN-E0438
- NSA 935000
- NSA 307110
- AS N°462396/85
- FAR 25-869

PRODUCT REFERENCES

ASNE0438 YV

CONSTRUCTION

CONDUCTOR

A Stranded Conductor
Made of Nickel Plated
Aluminium

INSULATION

3 POLYIMIDE Tapes

EXTERNAL PROTECTION

An Aromatic Polyamide
Braid Impregnated with
a Non Flammable Varnish

Filotex® ASN-E0438

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	US AWG	Conductor				Finished Wire or Cable		
		Stranding	Diam.	Nbr of Strands Missing Allowed	Maximum DC Resistance at 20°C (68°F)	Diameter		Maximum Weight
		(m x n x Diam. in mm)	(mm)		(Ohms/Km)	(mm)		(g/m)
						Mini.	Max.	
YV-1-06	6	7 x 10 x 0.51	5.0 ± 0.25	0	2.20	5.7	6.3	55
YV-1-04	4	7 x 15 x 0.51	6.1 ± 0.30	0	1.50	6.8	7.4	77
YV-1-03	3	7 x 19 x 0.51	6.8 ± 0.30	0	1.18	7.7	8.1	96
YV-1-02	2	7 x 24 x 0.51	7.7 ± 0.30	2	0.94	8.4	9.0	119
YV-1-01	1	7 x 30 x 0.51	8.6 ± 0.30	2	0.75	9.3	9.9	149
YV-1-0A	0	19 x 14 x 0.51	10.0 ± 0.30	3	0.60	10.7	11.5	186
YV-1-00	00	19 x 18 x 0.51	11.4 ± 0.30	3	0.43	12.1	13.1	240
YV-1-000 ①	000	19 x 22 x 0.51	12.7 ± 0.30	4	0.36	13.3	14.5	290
YV-1-0000 ①	0000	37 x 15 x 0.51	14.45 ± 0.35	5	0.29	15.1	16.3	370

① = AWG not defined in ASN Specification, values obtained by extension with defined construction

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AEROSPACE

Filotex® Type NSA 935 308
150°C Operating Temperature

Filotex®

Flexible Aluminium Alloy conductor
Single Core Large Sizes

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Operating temperature : -55°C to +150°C.(Ambiant + Rise))
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Conductor Construction : AECMA EN 3719 Specification
- Dimensions and weights : See table on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant

Identification

- By Colored Threads Between Polyimide Tapes and External Braid
  Manufacturer colour: Black + Grey = Filotex®
  Manufacturing year : Blue + Brown = 2003

Specifications

- AECMA EN 3719 (Conductors)
- NSA935308
- NSA 935000
- NSA 307110
- FAR 25-1359

PRODUCT REFERENCES

NSA935308 YU

CONSTRUCTION

CONDUCTOR

A Stranded Conductor
Made of Aluminium alloy

INSULATION

3 POLYIMIDE Tapes

EXTERNAL PROTECTION

An Aromatic Polyamide
Braid Impregnated with
a Non Flammable Varnish

Filotex® NSA 935308

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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	US AWG	Conductor				Finished Wire or Cable		
		Stranding	Diam.	Nbr of Strands Missing Allowed	Maximum DC Resistance at 20°C (68°F)	Diameter		Maximum Weight
		(m x n x Diam. in mm)	(mm)		(Ohms/Km)	(mm)		(g/m)
						Mini.	Max.	
YU 12①	12	45 x 0.30	2.4 ±0.20	0	10	3.2	3.45	16.5
YU 10①	10	27 x 0.51	2.9 ± 0.20	0	5.8	3.6	4.0	26
YU 8①	8	41 x 0.51	3.7 ± 0.20	0	3.8	4.4	4.8	35
YU 6①	6	7 x 10 x 0.51	5.0 ± 0.25	0	2.20	5.7	6.3	55
YU 4	4	7 x 15 x 0.51	6.1 ± 0.30	0	1.50	6.8	7.4	84
YU 3①	3	7 x 19 x 0.51	6.8 ± 0.30	0	1.18	7.7	8.1	96
YU 2①	2	7 x 24 x 0.51	7.7 ± 0.30	2	0.94	8.4	9.0	120
YU 1①	1	7 x 30 x 0.51	8.6 ± 0.30	2	0.75	9.3	9.9	149
YU 0	0	19 x 14 x 0.51	10.0 ± 0.30	3	0.66	10.7	11.5	199
YU 00	00	19 x 18 x 0.51	11.4 ± 0.30	3	0.43	12.1	13.1	256
YU 000	000	19 x 22 x 0.51	12.7 ± 0.30	4	0.36	13.3	14.5	309
YU 000	0000	37 x 15 x 0.51	14.45 ± 0.35	5	0.29	15.1	16.3	390

① = AWG not designed in NSA Specification, values obtained by extension with defined construction

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Part 3

Nacelles and engines: High temperature, fire resistant/proof cables

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AEROSPACE

FX 5400

VG 95218-20 type J

Single wire

Filotex®

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Temperature rating : -55°C /+260°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Very good resistance to Aircraft Fluids.
- Arc Tracking Resistant

Identification

- Colour : White
- Marking : VG95218T020J**£ F 0241 ++ DG
  ** = Dash N°
  £ = Colour (9 = White)
  ++ = Year of production (ie. : 00 = 2000)
  DG = Cable code according to TR 6058
  F 0241 = Manufacturer's Cage code

Specifications

- VG 95218-2 (May 1998)
- VG 95218-20 (Feb 2000)

PRODUCT REFERENCES

FX 5400
FX 5301
FX 5303
FX 5401
FX 5403

CONSTRUCTION

CONDUCTOR :

① Stranded conductor Made of Nickel Plated Copper.

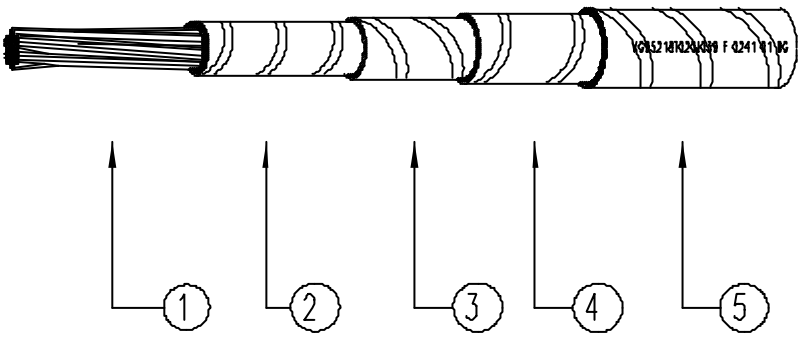
INSULATION :

② Polyimide tape

③ PTFE tape

④ Glass fiber tape

⑤ PTFE tape



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Nexans

DIMENSIONS AND WEIGHTS (METRIC UNITS)

TYPE J : Single core nickel plated copper.

VG Reference	NEXANS Part Number	Dash Number (VG)	Size Code (NEXANS)	AWG (1)	Conductor	
					Stranding Nbr x Diam of strands (mm)	Diameter Max. (mm)
VG 95218T020J019	FX 5400-050	01	050	10	73 x 0.30	3.3
VG 95218T020J029	FX 5400-090	02	090	8	127 x 0.30	4.5
VG 95218T020J039	FX 5400-140	03	140	6	27 x 7 x 0.30	5.6
VG 95218T020J049	FX 5400-220	04	220	4	37 x 12 x 0.25	7.3
VG 95218T020J059	FX 5400-340	05	340	2	37 x 19 x 0.25	8.8
VG 95218T020J069	FX 5400-420	06	420	1	37 x 23 x 0.25	10.0
VG 95218T020J079	FX 5400-530	07	530	0	37 x 29 x 0.25	11.3
VG 95218T020J089	FX 5400-680	08	680	00	37 x 37 x 0.25	12.5
VG 95218T020J099	FX 5400-850	09	850	000	48 x 36 x 0.25	14.4
VG 95218T020J109	FX 5400-107	10	107	0000	61 x 36 x 0.25	15.9

(1) = For Information only.

Finished Wire			
Diameter		Weight	Maximum DC Resistance at 20°C (68°F)
Min. (mm)	Max. (mm)	Max. (g/m)	(Ohms/Km)
4.1	4.5	64.5	3.9
5.2	5.6	108	2.3
6.3	7.3	160	1.6
8.1	9.3	245	0.97
9.7	10.9	396	0.61
10.6	12.1	470	0.50
11.8	13.4	600	0.40
13.6	14.5	750	0.31
15.6	16.8	950	0.25
17.0	18.4	1200	0.20

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AEROSPACE

NSA 935131

Filotex®

260°C Operating High Temperature Aircraft wire

Applications

- Designed for general Purpose Aircraft Wiring Applications.

Main data

- Temperature rating : -55°C /+260°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Very good resistance to Aircraft Fluids.
- Mould and Fungus Resistant
- Non flammable

PRODUCT REFERENCES

NSA 935 131 DG ++

CONSTRUCTION

CONDUCTOR

① Stranded conductor
Nickel Plated Copper.

INSULATION

② Polyimide tape

③ PTFE tape(s)

④ Glass fiber tape

⑤ PTFE tape(s)

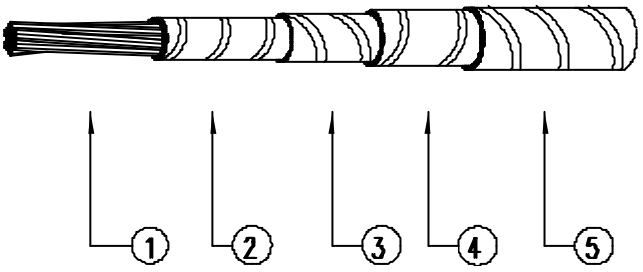
Identification

- Colour: White

Specifications

- NSA935131

NSA 935 131 DG



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Nexans

DIMENSIONS AND WEIGHTS (METRIC UNITS)

NEXANS Part Number	Nominal section (mm^2)	AWG	Conductor	
			Stranding Nbr x Dia. of strands (mm)	Diameter Max. (mm)
NSA 935 131 DG 10	5.15	10	73 x 0.30	3.3
NSA 935 131 DG 8	8.98	8	127 x 0.30	4.5
NSA 935 131 DG 6	13.4	6	27 x 7 x 0.30	5.6
NSA 935 131 DG 4	21.8	4	37 x 12 x 0.25	7.3
NSA 935 131 DG 2	34.5	2	37 x 19 x 0.25	8.8
NSA 935 131 DG 1	41.8	1	37 x 23 x 0.25	10.0
NSA 935 131 DG 0	52.7	0	37 x 29 x 0.25	11.3
NSA 935 131 DG 00	67.2	00	37 x 37 x 0.25	12.5
NSA 935 131 DG 000	84.8	000	48 x 36 x 0.25	14.4
NSA 935 131 DG 0000	107.8	0000	61 x 36 x 0.25	15.9

NEXANS Part Number	Finished Wire Diameter Min. (mm)	Weight Max. (mm)	Maximum DC Max. (g/m)	Resistance at 20°C (68°F) (Ohms/Km)
NSA 935 131 DG 10	4.1	4.5	64.5	3.9
NSA 935 131 DG 8	5.2	5.6	108	2.3
NSA 935 131 DG 6	6.3	7.3	160	1.6
NSA 935 131 DG 4	8.1	9.3	245	0.97
NSA 935 131 DG 2	9.7	10.9	396	0.61
NSA 935 131 DG 1	10.6	12.1	470	0.50
NSA 935 131 DG 0	11.8	13.4	600	0.40
NSA 935 131 DG 00	13.6	14.5	750	0.31
NSA 935 131 DG 000	15.6	16.8	950	0.25
NSA 935 131 DG 0000	17.0	18.4	1200	0.20

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AEROSPACE

BMS 13-58

Filotex®

High Temperature Aircraft Wire

Applications

- Designed for general purpose aircraft wiring where exposure to thermal changes and corrosive fluids is normal.

Main data

- Voltage/Frequency Rating : 600 Volts RMS/2000 Hz Max.
- Operating Temperature : -65°C (-85°F) to +260°C (+500°F)
- Dimensions and weights : See Tables on This Data Sheet.
- Abrasion resistant
- Resistant to aircraft fluids
- Good mechanical and electrical performances

PRODUCT REFERENCES

BMS 13-58 T1
BMS 13-58 T5

BMS 13-58 T2 to T9

CONSTRUCTION

CONDUCTOR
① -Nickel coated Copper Conductor (Type 1)
-Nickel coated copper alloy (Type 5)

INSULATION
② PTFE tape

③ Polyimide tape

④ PTFE coated glass tape (AWG 8 to 0000 only)

⑤ PTFE coated glass braid

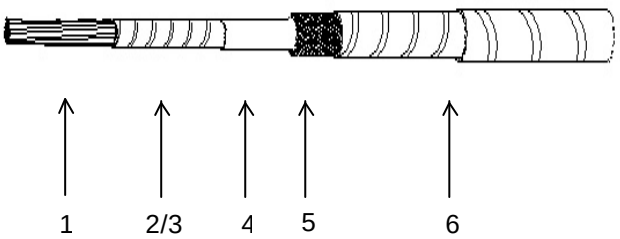
⑥ PTFE tapes Jacket

Specification

- BMS 13-58 QPL

Product range

- Shielded and jacketed T3, T7, T9 cables are available upon request
- Shielded T2, T6 cables are available upon request
- Jacketed T4, T8 cables are available upon request



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DIMENSIONS AND WEIGHTS (METRIC UNITS)

TYPE 1

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding (Nbr of Strands x Dia.of Strands in mm)	Diameter (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)	
			Nom.	Max.	Max.	Min.	Max.	Min.	Max.
BMS 13-58 T1	24	19 x 0.127	0.58	0.66	86	1.75	1.91	6.4	7.23
BMS 13-58 T1	22	19 x 0.16	0.74	0.84	52.5	1.85	2.01	7.89	8.72
BMS 13-58 T1	22	19 x 0.20	0.94	1.04	32.1	2.03	2.18	9.73	11.55
BMS 13-58 T1	18	19 x 0.25	1.17	1.30	22	2.31	2.46	13.91	16.07
BMS 13-58 T1	16	19 x 0.30	1.32	1.47	15.6	2.41	2.62	17.26	19.05
BMS 13-58 T1	14	19 x 0.36	1.65	1.85	9.84	2.77	2.97	24.10	26.93
BMS 13-58 T1	12	37 x 0.32	2.13	2.29	6.5	3.25	3.45	34.60	38.69
BMS 13-58 T1	10	37 x 0.40	2.69	2.90	4.07	3.71	4.01	51.48	57.88
BMS 13-58 T1	8	19 x 7 x 0.287	4.01	4.39	2.28	5.46	5.77	94.04	106.84
BMS 13-58 T1	6	19 x 7 x 0.360	5.03	5.51	1.43	6.38	7.14	138.23	161.75
BMS 13-58 T1	4	19 x 7 x 0.455	6.35	6.96	0.902	7.77	8.64	217.54	254.15
BMS 13-58 T1	2	19 x 35 x 0.254	8.13	8.64	0.581	9.83	10.49	348.04	401.46
BMS 13-58 T1	0	19 x 55 x 0.254	10.03	10.8	0.371	11.79	12.6	510.23	610.53
BMS 13-58 T1	00	19 x 70 x 0.254	11.18	12.07	0.292	12.88	14.15	566.18	765.58
BMS 13-58 T1	000	37 x 45 x 0.254	12.7	13.72	0.233	14.17	15.44	793.10	941.9
BMS 13-58 T1	0000	37 x 57 x 0.254	14.35	15.37	0.184	15.95	17.25	1031.63	1125

TYPE 5

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire				
		Stranding (Nbr of Strands x Dia. of Strands in mm)	Diameter (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)	
			Min.	Max.	Max.	Min.	Max.	Min.	Max.
BMS 13-58 T5	24	19 x 0.127	0.58	0.66	86	1.75	1.91	6.4	7.23
BMS 13-58 T5	22	19 x 0.16	0.74	0.84	52.5	1.85	2.01	7.89	8.72
BMS 13-58 T5	22	19 x 0.20	0.94	1.04	32.1	2.03	2.18	10.42	11.55
BMS 13-58 T5	18	19 x 0.25	1.17	1.30	22	2.31	2.46	15.19	16.07
BMS 13-58 T5	16	19 x 0.30	1.32	1.47	15.6	2.41	2.62	17.26	19.05

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AEROSPACE

Type 2100

Filotex®

Flexible cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58
These cables are approved by the Air Ministry under letters :
N°42707 STA/EQ/E2 (03-12-68)
Registered at the B.N.Aé : N° 6418 401
Operating voltage: 600 volts RMS
Operating temperature: - 50°C to + 250°C
(ambient + rise)

PRODUCT REFERENCES

2100
1050

Characteristics:

- These cables are designed for use at high ambient temperatures up to 289°C at peak,
- Excellent flame resistance,
- Non-flammable,
- They withstand most solvents.

Technical requirements and control conditions:

- Air4524 Specification of September 1965 - Category 250/280°C,
- NF.L 52-125A French Draft Specification – Category C, of July 1978 – Standard cables.

Interchangeability:

- MIL-W-22759 D Specification – Index 8 A of June 1973 and MS 18001 (up to 12 AWG).

CONSTRUCTION

① CONDUCTOR :
Stranded nickel plated copper

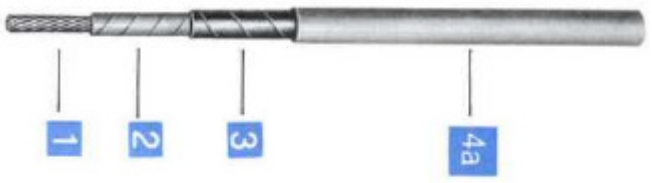
② Thin wrapped PTFE layer

③ INSULATION:
Polyimide

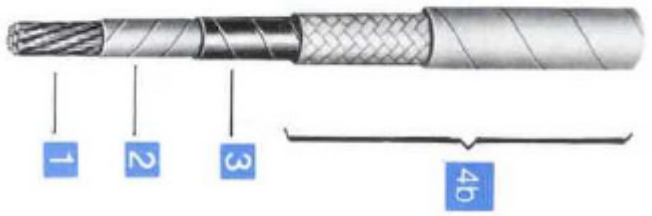
④ OUTER JACKET:
a) from 0.38 to1.34 mm²: extruded PTFE sheath (high abrasion resistance)
b) from 1.91 mm² : composite glass fiber + PTFE + wrapped and sintered PTFE sheath.

Colour coding: according to AIR0107 (10/1961).

Cross sections from 0.38 to 1.34 mm²



Cross sections from 1.91 mm²



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Nexans

MECHANICAL & ELECTRICAL VALUES

References		Gauge	CONDUCTOR		CORE			ELECTRICAL VALUES	
			Construction	Nominal diameter	Overall diameter	Weight		D.C. Resistance at 20°C (maxi.)	Current rating
Type	Cross Sectional aera	AWG	n x Ø mm	mm	mm	nomi. g/m	maxi. g/m	W / km	A
2100	0.38	22	12 x 0.20	0.85	1.90 ± 0.10	8.6	9.3	54.50	7
2100	0.60	20	19 x 0.20	1.00	2.20 ± 0.10	12.1	12.4	34.40	11
2100	0.98	18	19 x 0.25	1.25	2.40 ± 0.10	15.8	17	22.00	16
2100	1.34	16	19 x 0.30	1.50	2.70 ± 0.10	19.6	20	15.30	22
2100	1.91	14	27 x 0.30	1.85	2.95 ± 0.10	26.1	27	10.80	32
2100	3.18	12	45 x 0.30	2.40	3.60 ± 0.15	40.8	16.5	6.50	41
2100	5.15	10	73 x 0.30	3.10	4.20 ± 0.20	60.4	65	3.40	55
2100	8.98	8	127 x 0.30	4.00	5.30 ± 0.20	102	108	2.30	75
2100	13.40	6	27 x 7 x 0.30	5.10	7.00 ± 0.30	158	160	1.60	100
2100	21.80	4	37 x 12 x 0.25	6.60	9.00 ± 0.30	237	245	0.97	135
2100	34.50	2	37 x 19 x 0.25	8.10	10.60 ± 0.30	391	396	0.61	181
2100	41.80	1	37 x 23 x 0.25	9.80	11.80 ± 0.30	460	470	0.50	211
2100	52.70	0	37 x 29 x 0.25	10.80	13.10 ± 0.30	580	600	0.40	245
2100	67.20	00	37 x 37 x 0.25	12.40	14.20 ± 0.30	736	750	0.31	283

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.

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AEROSPACE

Type 2102

Filotex®

Flexible cables for high ambient temperatures
Lighweight cables

To AIR 4524, B.N.Aé
These cables are approved by the Air Ministry under letters :
N°34456 STA/EQ/E2 (03-05-74)
Registered at the B.N.Aé : N° 6418 403
Operating voltage: 600 volts RMS
Operating temperature: - 50°C to + 250°C
(ambient + rise)

PRODUCT REFERENCES

2102

Characteristics:

- These cables may be used at high ambient temperatures, up to 280°C at peak,
- Excellent flame resistance,
- Non-flammable,
- They withstand most solvents.

Technical requirements and control conditions:

- Air4524 Specification - Category 250/280°C,
- NF.L 52-125A French Draft Specification – Category C – Lightweight cables.

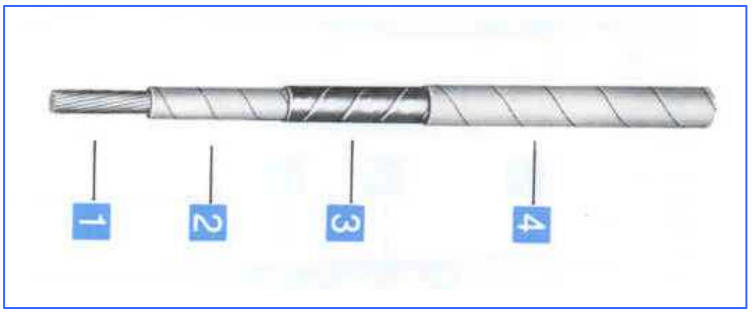
CONSTRUCTION

① CONDUCTOR :
Stranded nickel plated copper or nickel plated copper alloy for 0.21 sq mm size (alloy providing a good mechanical resistance)

② Thin wrapped PTFE layer allowing easy stripping

③ INSULATION:
Polyimide insulation closely bonded to the PTFE layer

④ OUTER JACKET:
Wrapped and fused PTFE sheath
Colour coding: according to AIR0107 (10/1961).



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MECHANICAL & ELECTRICAL VALUES

References		Gauge	CONDUCTOR			CORE		ELECTRICAL VALUES	
			Construction	Nominal diameter	Tensile Strength	Overall diameter	Average Weight	D.C. Resistance at 20°C (maxi.)	Current rating
Type	Cross Sectional aera	AWG	n x Ø mm	mm	daN	mm	g/m	Ω / km	A
2102	0.21	24	19 x 0.12 N.P.All.	0.58	7	1.40 ± 0.10	5.0	112.3	4
2102	0.38	22	12 x 0.20 N.P.C.	0.77	8	1.60 ± 0.10	7.1	54.5	7
2102	0.60	20	19 x 0.20 N.P.C.	0.97	16	1.80 ± 0.10	9.2	34.4	11
2102	0.93	18	19 x 0.25 N.P.C.	1.21	> 20	2.05 ± 0.10	13.0	22.0	16
2102	1.34	16	19 x 0.30 N.P.C.	1.45	> 20	2.30 ± 0.10	17.5	15.3	22
2102	1.91	14	27 x 0.30 N.P.C.	1.74	> 20	2.70 ± 0.15	24.8	10.8	32
2102	3.18	12	45 x 0.30 N.P.C.	2.25	> 20	3.25 ± 0.15	38.2	6.4	41

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.
N.P.All. = nickel plated annealed copper alloy – N.P.C. = nickel plated annealed electrolytic copper

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AEROSPACE

Type 2103

Filotex®

Flexible cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759B
These cables are approved by the Air Ministry under letters :
N°34672 STA/EQ/E3 (25-05-77) for cross-section from 0.38 mm² to 107.80 mm²
N°34672 STA/EQ/E3 (22-12-77) for cross-section 0.21 mm²
Registered at the B.N.Aé : N° 6418 404 A
Operating voltage: 600 volts RMS
Operating temperature: - 90°C to + 260°C
(ambient + rise)

PRODUCT REFERENCES

2103

Characteristics:

- These cables may be used at high ambient temperatures, up to 300°C at peak,
- Vital circuits: they withstand overloads for 15 seconds to 2 minutes (870°C to 1040°C) according to MIL-W-7139 B Standard,
- Non-flammable,
- Excellent soldering resistance,
- Good abrasion resistance,
- They withstand most solvents.

Technical requirements and control conditions:

- Air4524 Specification - Category 250/280°C,
- NF.L 52-125A French Draft Specification (high temperature cable),
- MIL-W-22759 B Specification Class 2 (Nickel-plated copper conductor).

CONSTRUCTION

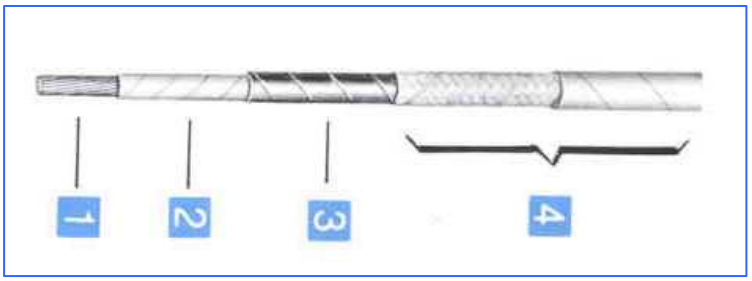
① CONDUCTOR :
Stranded nickel plated copper or nickel plated copper alloy for 0.21 sq mm size (alloy providing a high mechanical resistance)

② Thin PTFE layer

③ INSULATION:
Polyimide insulation

④ PROTECTIVE INSULATION:
- PTFE + glass fiber tape coated with PTFE,
- wrapped PTFE finish sheath

These tapes are intimately bonded to each other.



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MECHANICAL & ELECTRICAL VALUES

References		Gauge	CONDUCTOR			CORE		ELECTRICAL VALUES	
			Construction	Nominal diameter	Tensile Strength	Overall diameter (max.)	Average Weight	D.C. Resistance at 20°C (maxi.)	Current rating
Type	Cross Sectional aera	AWG	n x Ø mm	mm	daN	mm	g/m	Ω / km	A
2103	0.21	24	19 x 0.12 N.P.All.	0.65	7	1.80	5.60	112.30	4
2103	0.38	22	12 x 0.20 N.P.C.	0.85	8	1.95	7	54.50	7
2103	0.60	20	19 x 0.20 N.P.C.	1.03	16	2.10	9.40	34.40	11
2103	0.93	18	19 x 0.25 N.P.C.	1.28	> 20	2.20	13	22.00	16
2103	1.34	16	19 x 0.30 N.P.C.	1.53	> 20	2.80	18	15.30	22
2103	1.91	14	27 x 0.30 N.P.C.	1.87	> 20	3.20	25	10.80	32
2103	3.18	12	45 x 0.30 N.P.C.	2.40	> 20	3.70	38.5	6.40	41
2103	5.15	10	73 x 0.30 N.P.C.	3.10	> 20	4.35	60	3.98	55
2103	8.98	8	127 x 0.30 N.P.C.	4.20	> 20	5.55	101	2.29	75
2103	13.40	6	27 x 7 x 0.30 N.P.C.	5.60	> 20	7.30	148	1.58	100
2103	21.80	4	37 x 12 x 0.25 N.P.C.	7.30	> 20	9.30	227	0.97	135
2103	34.50	2	37 x 19 x 0.25 N.P.C.	8.80	> 20	10.90	367	0.61	181
2103	41.80	1	37 x 23 x 0.25 N.P.C.	9.80	> 20	12.10	430	0.50	211
2103	52.70	0	37 x 29 x 0.25 N.P.C.	10.80	> 20	13.40	540	0.40	245
2103	67.20	00	37 x 37 x 0.25 N.P.C.	12.40	> 20	14.50	675	0.31	283
2103	84.80	000	48 x 36 x 0.25 N.P.C.	13.80	> 20	16.90	965	0.25	328
2103	107.80	0000	61 x 36 x 0.25 N.P.C.	15.80	> 20	18.70	1150	0.19	380

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.
N.P.All. = nickel plated annealed copper alloy – N.P.C. = nickel plated annealed electrolytic copper

Colour coding: according to AIR0107 A Specification (10/1961).
Other colour codings on request (stripes or printed identification).

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AEROSPACE

Type 1050

Filotex®

Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759 D & B.M.S. 13-58
Operating voltage: 600 volts RMS
Operating temperature: - 50°C to + 250°C
(ambient + rise)

PRODUCT REFERENCES

1050
2100

Characteristics:

Same as 2100 cores. Moreover, the overall polyimide and PTFE sheaths provide the following advantages:

- Very good electrical insulation of the screen,
- Very efficient protection of the screen against oxidation and corrosion,
- Easy fitting of the cable,
- Good mechanical protection of the screen,
- Safer handling.

Technical requirements and control conditions:

- Cores: see data sheet on type '2100',
- Screen: MIL-7078 of August 1971,
- Coding: AIR 0107 A Specification of October 1961 and Note N°348/SIB distributed under N°5927/STT/SIB of May 1961.

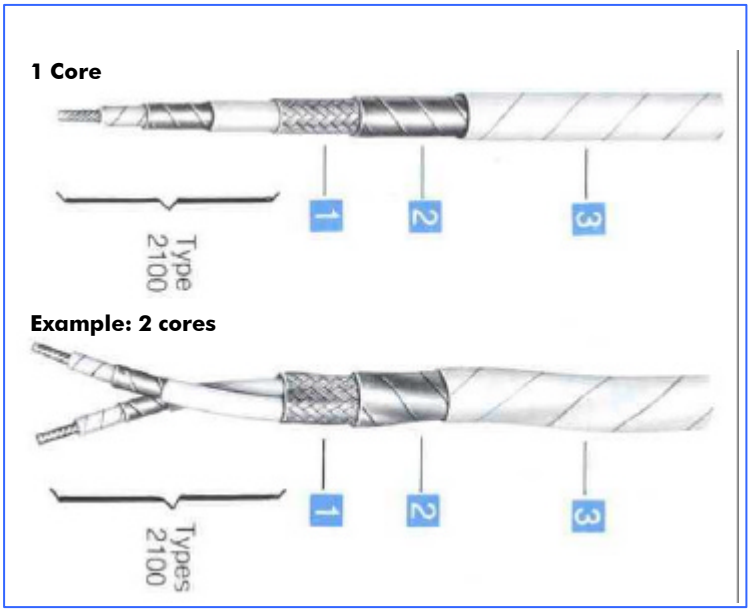
CONSTRUCTION

1,2 or 3 cores, Type 2100 covered with:

① A braided screen made up of nickel plated copper

② A Polyimide sheath

③ A wrapped and sintered PTFE sheath



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MECHANICAL & ELECTRICAL VALUES

References			2100 CORES				SCREEN AND PROTECTION			
			Gauge	Construction	Overall diameter of the core	Colour of cores	Screen strands	PTFE outer sheath	Overall diameter (max.)	Average weight
Type	Nb. cores	Cross Sectional aera	AWG	n x Ø mm	mm		Ø mm	Colour	mm	g/m
1050	1	0.38	22	12 x 0.20 NPC	1.90	White	12/100	White	3.2	20.8
1050	1	0.60	20	19 x 0.20 NPC	2.20	Light blue	12/100	Blue	3.5	25.9
1050	1	0.93	18	19 x 0.25 NPC	2.40	White	12/100	White	3.8	30.8
1050	1	1.34	16	19 x 0.30 NPC	2.70	Light blue	12/100	Blue	4.1	36.3
1050	1	1.91	14	27 x 0.30 NPC	2.95	White	12/100	White	4.4	44.3
1050	2	0.38	22	12 x 0.20 NPC	1.90	White + blue	12/100	White	5.3	42.2
1050	2	0.60	20	19 x 0.20 NPC	2.20	Light blue + blue	12/100	Blue	5.9	51.0
1050	2	0.93	18	19 x 0.25 NPC	2.40	White + blue	12/100	White	6.3	63.2
1050	2	1.34	16	19 x 0.30 NPC	2.70	Light blue + blue	12/100	Blue	6.9	75.2
1050	2	1.91	14	27 x 0.30 NPC	2.95	White + blue	12/100	White	7.6	92.6
1050	3	0.38	22	12 x 0.20 NPC	1.90	White + blue + Yellow	12/100	White	5.6	53.0
1050	3	0.60	20	19 x 0.20 NPC	2.20	Light blue + blue + Yellow	12/100	Blue	6.2	66.1
1050	3	0.93	18	19 x 0.25 NPC	2.40	White + blue + Yellow	12/100	White	6.6	82.7
1050	3	1.34	16	19 x 0.30 NPC	2.70	Light blue + blue + Yellow	12/100	Blue	7.3	98.6
1050	3	1.91	14	27 x 0.30 NPC	2.95	White + blue + Yellow	12/100	White	8.1	122.3

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.
N.P.C. = Nickel plated copper

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AEROSPACE

Type 1052

Filotex®

Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé
Operating voltage: 600 volts RMS
Operating temperature: - 50°C to + 250°C
(ambient + rise)

PRODUCT REFERENCES

1052
2102

Characteristics:

Same as 2102 basic cores. Moreover, the overall polyimide and PTFE sheaths provide the following advantages:

- Very good electrical insulation of the screen,
- Very efficient protection of the screen against oxidation and corrosion,
- Easy fitting of the cable,
- Safer handling.

Technical requirements and control conditions:

- Cores: see data sheet on type '2102',
- Screen: MIL-C 7078 of August 1971,
- Coding: AIR 0107 A Specification of October 1961 and Note N°348/SIB distributed under N°5927/STT/SIB of May 1961.

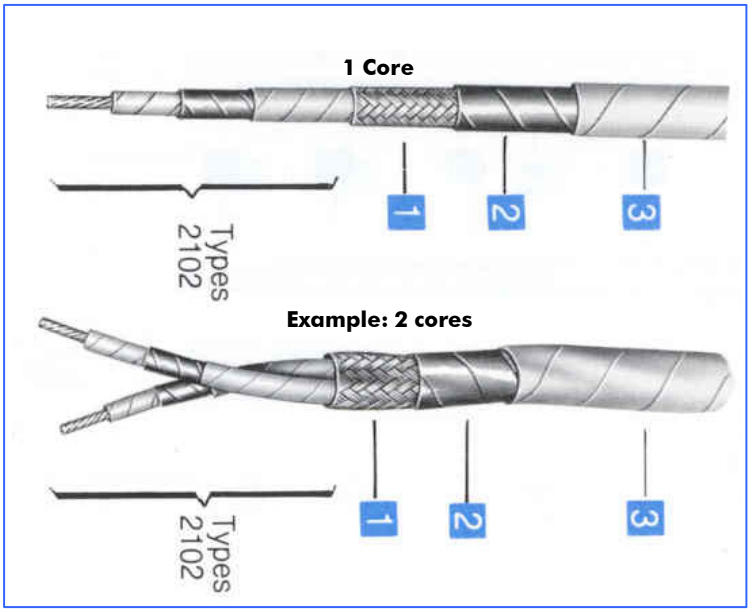
CONSTRUCTION

1,2 or 3 cores, Type 2102 covered with:

① A braided screen made up of nickel plated copper

② A Polyimide sheath

③ A wrapped and sintered PTFE overall sheath



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MECHANICAL & ELECTRICAL VALUES

References			2100 CORES				SCREEN AND PROTECTION			
			Gauge	Construction	Overall diameter of the core	Colour of cores	Screen strands	PTFE outer sheath	Overall diameter (max.)	Average weight
Type	Nb. cores	Cross Sectional aera	AWG	n x Ø mm	mm		Ø mm	Colour	mm	g/m
1052	1	0.21	24	19 x 0.12 N.P. All.	1.40	Light blue	10/100	Blue	2.6	13.3
1052	1	0.38	22	12 x 0.20 NPC	1.60	White	10/100	White	2.8	16.5
1052	1	0.60	20	19 x 0.20 NPC	1.80	Light blue	10/100	Blue	2.9	19.1
1052	1	0.93	18	19 x 0.25 NPC	2.05	White	10/100	White	3.2	24.0
1052	1	1.34	16	19 x 0.30 NPC	2.30	Light blue	12/100	Blue	3.7	32.2
1052	1	1.91	14	27 x 0.30 NPC	2.70	White	12/100	White	4.0	41.1
1052	2	0.21	24	19 x 0.12 N.P. All.	1.40	Light blue + blue	12/100	Blue	4.2	29.3
1052	2	0.38	22	12 x 0.20 NPC	1.60	White + blue	12/100	White	4.7	36.6
1052	2	0.60	20	19 x 0.20 NPC	1.80	Light blue + blue	12/100	Blue	5.0	42.2
1052	2	0.93	18	19 x 0.25 NPC	2.05	White + blue	12/100	White	5.5	53.0
1052	2	1.34	16	19 x 0.30 NPC	2.30	Light blue + blue	12/100	Blue	6.3	66.7
1052	2	1.91	14	27 x 0.30 NPC	2.70	White + blue	12/100	White	7.0	85.9
1052	3	0.21	24	19 x 0.12 N.P. All.	1.40	Light blue + blue + Yellow	12/100	Blue	4.4	46.2
1052	3	0.38	22	12 x 0.20 NPC	1.60	White + blue + Yellow	12/100	White	5.1	45.6
1052	3	0.60	20	19 x 0.20 NPC	1.80	Light blue + blue + Yellow	12/100	Blue	5.3	53.8
1052	3	0.93	18	19 x 0.25 NPC	2.05	White + blue + Yellow	12/100	White	5.8	68.8
1052	3	1.34	16	19 x 0.30 NPC	2.30	Light blue + blue + Yellow	12/100	Blue	6.7	90.0
1052	3	1.91	14	27 x 0.30 NPC	2.70	White + blue + Yellow	12/100	White	7.6	115.5

N.P. All. = Nickel plated copper alloy N.P.C. = Nickel plated annealed electrolytic copper

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AEROSPACE

Type 1053

Filotex®

Screened cables for high ambient temperatures

To AIR 4524, B.N.Aé, MIL-W-22759B & MIL-C-7078C
Operating voltage: 600 volts RMS
Operating temperature: - 90°C to + 260°C
(ambient + rise)

PRODUCT REFERENCES

1053
2103

Characteristics:

Same as 2103 basic cores. Moreover, the polyimide and PTFE protective sheaths provide the following advantages:

- Very good electrical insulation of the screen,
- Very efficient protection of the screen against oxidation and corrosion,
- Easy fitting of the cable,
- Safer handling.

Technical requirements and control conditions:

- Cores: see data sheet on type '2103',
- Screen: MIL-C-7078 C Specification of August 1971,
- Coding: AIR 0107 A Specification of October 1961 and Note N°348/SIB distributed under N°5927/STT/SIB of May 1961.

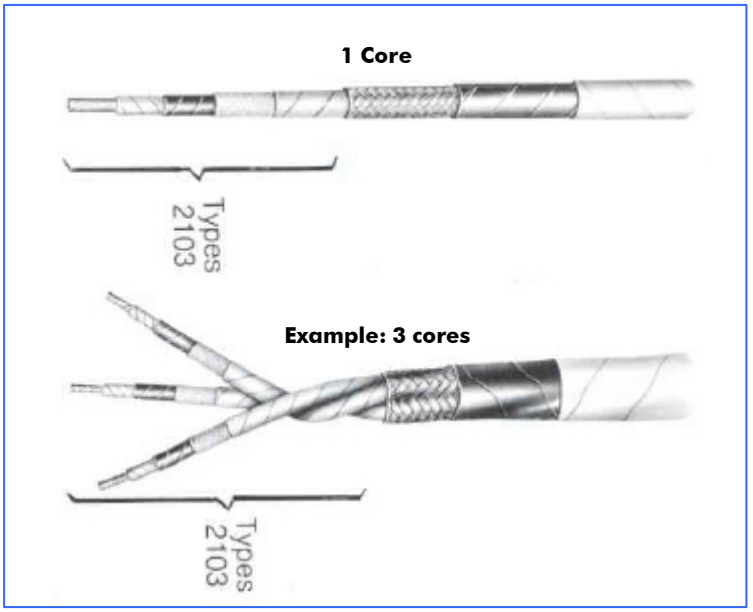
CONSTRUCTION

1,2 or 3 cores, Type 2103 covered with:

① A braided screen made up of nickel plated copper (62% minimum coverage)

② A Polyimide sheath

③ A wrapped and sintered PTFE sheath



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MECHANICAL & ELECTRICAL VALUES

References			Gauge	2100 CORES			SCREEN AND PROTECTION			
				Construction	Overall diameter of the core	Colour of cores	Screen strands	PTFE outer sheath	Overall diameter (max.)	Average weight
Type	Nb. cores	Cross Sectional aera	AWG	n x Ø mm	mm		Ø mm	Colour	mm	g/m
1053	1	0.38	22	12 x 0.20 NPC	1.80	White	10/100	White	2.9	16.5
1053	1	0.60	20	19 x 0.20 NPC	1.95	Light blue	10/100	Blue	3.0	19.3
1053	1	0.93	18	19 x 0.25 NPC	2.10	White	10/100	White	3.2	24.0
1053	1	1.34	16	19 x 0.30 NPC	2.20	Light blue	12/100	Blue	4.1	32.7
1053	1	1.91	14	27 x 0.30 NPC	2.80	White	12/100	White	4.4	41.3
1053	2	0.38	22	12 x 0.20 NPC	1.80	White + blue	12/100	White	4.9	38.0
1053	2	0.60	20	19 x 0.20 NPC	1.95	Light blue + blue	12/100	Blue	5.2	44.0
1053	2	0.93	18	19 x 0.25 NPC	2.10	White + blue	12/100	White	5.5	56.0
1053	2	1.34	16	19 x 0.30 NPC	2.20	Light blue + blue	12/100	Blue	7.1	70.0
1053	2	1.91	14	27 x 0.30 NPC	2.80	White + blue	12/100	White	7.8	91.0
1053	3	0.38	22	12 x 0.20 NPC	1.80	White + blue + Yellow	12/100	White	5.4	48.0
1053	3	0.60	20	19 x 0.20 NPC	1.95	Light blue + blue + Yellow	12/100	Blue	5.6	57.0
1053	3	0.93	18	19 x 0.25 NPC	2.10	White + blue + Yellow	12/100	White	5.8	73.0
1053	3	1.34	16	19 x 0.30 NPC	2.20	Light blue + blue + Yellow	12/100	Blue	7.5	95.0
1053	3	1.91	14	27 x 0.30 NPC	2.80	White + blue + Yellow	12/100	White	8.4	121.0

The currents shown are valid for single wires in air. For current ratings of bundles see Air 7822 Specification.
This cable type accomodates connectors according to MIL-C-83723 Specification
N.P.C. = Nickel plated annealed electrolytic copper

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AEROSPACE

Filotex® Type TMF
High Temperature Fire Resistant Wires

Filotex®

High Temperature and Fire Resistant Aero-Engines Wires

PRODUCT REFERENCES

TMF
TMF SJ

CONSTRUCTION

CONDUCTOR

① 19 Strands of Nickel Clad Copper Conductor.

INSULATION

② Special Fire Resistant Composite Insulation.

③ PTFE Tape(s).

Characteristics

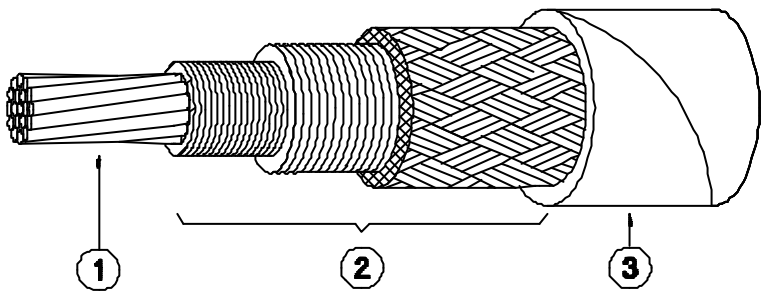
- Voltage Rating : 600 Volts RMS.
- Low Operating Temperature : -65°C (-85°F)
- High Operating Temperature: +260°C (+500°F)
- Operating Frequency : up to 2000 Hz
- Dimensions and weight : see table on this data sheet
- Very Good Fire Résistance : Pass BMS 13-55 and M25038 Fire Test (Aged and Unaged)
- Good resistance to aircraft fluids
- Good mechanical and electrical performances

Applications

- Heavy Duty Applications in Aero-engines and High Temperature Areas.

Specification

- MIL W 25038/1 and BMS 13-55 For Fire Tests.
- MILITARY QPL APPROVAL.



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DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	US AWG	Conductor			Finished Wire			
		Stranding (Nbr of Strands x Diam. of Strands in mm)	Diameter (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)
			Nom.	Max.	Max.	Nom.	Max.	Max.
TMF-1-22	22	19 x 0.160	0.78	0.84	77.8	2.54	2.94	14.9
TMF-1-20	20	19 x 0.203	0.98	1.04	47.9	2.77	3.17	17.9
TMF-1-18	18	19 x 0.254	1.22	1.32	30.0	3.03	3.43	22.3
TMF-1-16	16	19 x 0.287	1.40	1.55	22.5	3.23	3.73	28.3
TMF-1-14	14	19 x 0.361	1.76	1.88	14.8	3.81	4.31	37.2
TMF-1-12	12	19 x 0.455	2.20	2.36	9.12	4.20	4.70	52.1
TMF-1-10	10	7 x 7 x 0.360	3.09	3.25	5.51	5.30	5.84	81.8
TMF-1-8	8	19 x 7 x 0.287	4.05	4.47	3.07	6.50	7.12	127
TMF-1-6	6	19 x 7 x 0.361	5.09	5.54	1.94	8.10	8.69	189
TMF-1-4	4	19 x 7 x 0.455	6.42	6.91	1.23	9.70	10.4	286
TMF-1-2	2	19 x 35 x 0.254	8.01	8.76	0.790	11.7	12.3	433
TMF-1-1	1	19 x 43 x 0.254	8.88	9.75	0.643	12.6	13.6	516
TMF-1-01	0	19 x 55 x 0.254	10.04	10.97	0.502	13.6	14.6	618
TMF-1-02	00	19 x 70 x 0.254	11.33	12.45	0.394	15.1	16.1	774
TMF-1-03	000	37 x 46 x 0.254	12.82	13.92	0.315	16.8	17.8	964
TMF-1-04	0000	37 x 57 x 0.254	14.27	15.62	0.253	18.5	19.6	1180

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AEROSPACE

Filotex® type TMF-VRA-US
TMF-VR-US
High Temperature Fire Resistant Cables

Filotex®

High Temperature and Fire Resistant Aero-Engines Cables

PRODUCT REFERENCES

TMF
TMF SJ

CONSTRUCTION

CONDUCTOR

① **Filotex® TMF-VRA-US**
Nickel Clad High Strength Copper Alloy Conductor for AWG 22, 22H and 20
Filotex® TMF-VR-US
Nickel Clad Copper Conductor for other AWG

INSULATION

② Special Fire Resistant Composite Insulation

③ PTFE Tape(s)

Characteristics

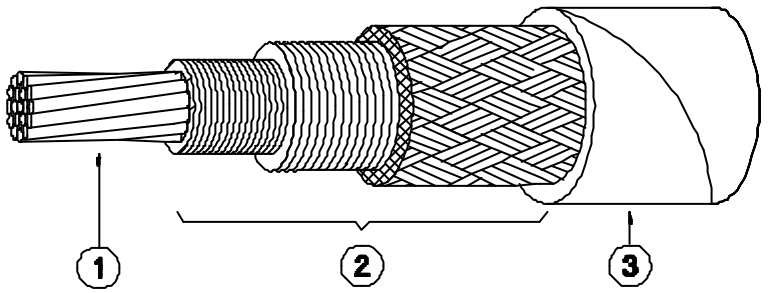
- Voltage Rating : 600 Volts RMS.
- Low Operating Temperature : -65°C (-85°F)
- High Operating Temperature : +260°C (+500°F)
- Operating Frequency : Up to 2000 Hz.
- Dimensions and weight : See table on this data sheet
- Very Good Fire Résistance : According to MIL W 25038
- Good resistance to aircraft fluids
- Good mechanical and electrical performances

Applications

- Heavy Duty Applications in Aero-engines and High Temperature Areas

Specification

- MIL W 25038/3
- MILITARY QPL APPROVAL



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX PART NUMBER	US AWG	Conductor			Finished Wire			
		Stranding (Nbr of Strands x Diam. of Strands in mm)	O.D. (mm)		Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)		Weight (Kg/Km)
			Nom.	Max.	Max.	Mini.	Max.	Max.
TMF-VRA-US-22	22	19 x 0.160	0.78	0.84	77.8	1.02	1.37	6.18
TMF-VRA-US-22H	22	19 x 0.160	0.78	0.84	77.8	1.40	1.91	8.90
TMF-VRA-US-20	20	19 x 0.203	0.99	1.04	50.1	1.22	2.11	13.40
TMF-VR-US-18	18	19 x 0.254	1.22	1.32	30.0	1.65	2.46	15.60
TMF-VR-US-16	16	19 x 0.287	1.40	1.55	22.5	1.73	2.62	20.10
TMF-VR-US-14	14	19 x 0.361	1.76	1.88	14.2	2.46	3.12	29.00
TMF-VR-US-12	12	19 x 0.455	2.23	2.36	9.12	2.54	3.61	41.70

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AEROSPACE

Filotex® Type FRM-A-US FRM-US

Filotex®

High Temperature Fire Resistant Cables
Aero Engines, Fire Zone Applications

PRODUCT REFERENCES

FRM-A-US
FRM-US

Applications

- Fire Resistant Cable

Characteristics

- Voltage/Frequency Rating : 600 Volts RMS/2000 Hz Max.
- Operating Temperature : -65°C/+260°C (-85°F/+500°F)
- Dimensions and Weights : See Table on Reverse Side of this Data Sheet

Specification

- MIL W 25038/3
-

CONSTRUCTION

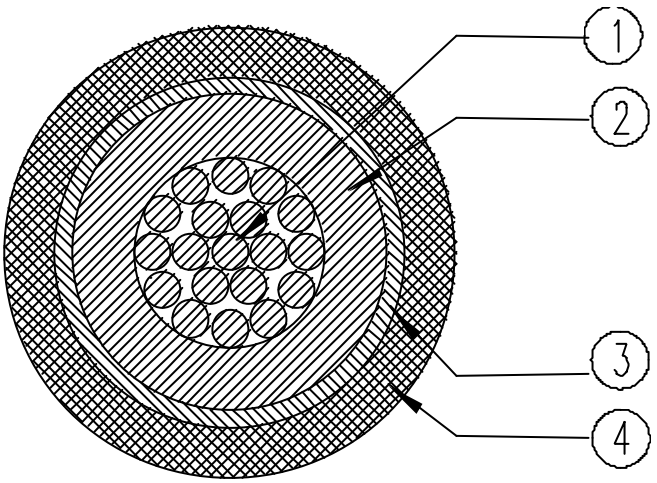
① CONDUCTOR

Filotex® FRM-A-US
Nickel Clad High Strength Copper Alloy Conductor for AWG 22, 22H and 20

Filotex® FRM-US
Nickel Clad Copper Conductor for other AWG

INSULATION

② Inorganic barrier
③ Polyimide Tape
④ PTFE Tape



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Nexans

DIMENSIONS AND WEIGHTS (METRIC)

US AWG	Conductors			Finished Wire				
	Strands (No / AWG)	O.D. (mm)		Maximum DC Resistance (Ohms/Km)	Diameter (mm)			Weight (Kg/Km)
		Nom.	Max.	at 23°C (73°F)	Min.	Nom.	Max.	Nom.
22	19/34	0.78	0.84	77.8	1.02	1.34	1.37	5.01
22H	19/34	0.78	0.84	77.8	1.40	1.50	1.91	5.82
20	19/32	0.99	1.04	50.1	1.22	1.78	2.11	8.10
18	19/30	1.24	1.32	27.9	1.65	2.02	2.46	11.60
16	19/29	1.40	1.55	21.8	1.73	2.21	2.62	14.62
14	19/27	1.76	1.88	14.2	2.46	2.64	3.12	22.38
12	19/25	2.20	2.36	9.12	2.54	3.08	3.61	33.18

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AEROSPACE

M27500A** JF + N 06

Filotex®

High Temperature Fire Resistant Shielded and Jacketed Cables

PRODUCT REFERENCES

FRM-(A)-US
M27500A JF + N 06**

CONSTRUCTION

CORES

① Filotex® FRM-A-US for AWG 22 and 20
Filotex® FRM-US for other AWG

SCREEN

② Nickel Clad Copper Braided Screen

JACKET

③④ PTFE Tapes

Characteristics

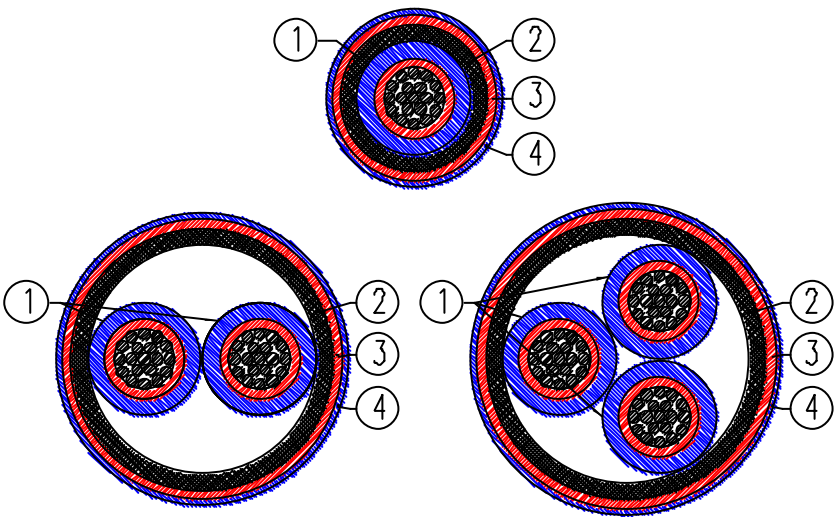
- Voltage Rating : 600 Volts RMS.
- Low Operating Temperature : -65°C (-85°F)
- High Operating Temperature : +260°C (+500°F)
- Operating Frequency : up to 2000 Hz.
- Dimensions and weight : see table on this data sheet.
- Good Fire Résistance.
- Good resistance to aircraft fluids.
- Good mechanical and electrical performances

Applications

- Fire Resistant Cable

Specification

- MIL W 25038/3
- MIL DTL 27500



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DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Number of Cores	Screen		Finished Cable				
			Strands (mm)	O.D. (mm) Nom.	Resistance at 20°C (68°F) of Cores (Ohms/Km) Max.	Diameter (mm) Nom.	Diameter (mm) Max.	Weight (Kg/Km) Nom.	Weight (Kg/Km) Max.
M27500A22 JF 1 N 06	22	1	0.10	1.74	77.8	2.38	2.83	13.89	19.13
M27500A20 JF 1 N 06	20	1	0.13	2.30	50.1	2.94	3.70	21.22	34.05
M27500A18 JF 1 N 06	18	1	0.13	2.54	28.0	3.18	4.05	26.09	38.86
M27500A16 JF 1 N 06	16	1	0.13	2.73	21.9	3.37	4.21	30.20	44.62
M27500A14 JF 1 N 06	14	1	0.13	3.16	14.2	3.80	4.71	40.41	57.36
M27500A12 JF 1 N 06	12	1	0.13	3.60	9.12	4.24	5.20	53.72	73.91
M27500A22 JF 2 N 06	22	2	0.13	3.20	79.4	3.84	4.33	25.70	35.60
M27500A20 JF 2 N 06	20	2	0.13	4.08	51.1	4.72	5.81	36.11	60.09
M27500A18 JF 2 N 06	18	2	0.13	4.56	28.6	5.20	6.51	45.49	69.19
M27500A16 JF 2 N 06	16	2	0.13	4.94	22.3	5.58	6.83	53.43	80.48
M27500A14 JF 2 N 06	14	2	0.13	5.80	14.4	6.44	7.83	73.28	105.23
M27500A12 JF 2 N 06	12	2	0.13	6.68	9.3	7.32	8.81	99.42	137.61
M27500A22 JF 3 N 06	22	3	0.13	3.41	79.4	4.05	4.55	33.25	44.91
M27500A20 JF 3 N 06	20	3	0.13	4.36	51.1	4.99	6.15	47.61	78.39
M27500A18 JF 3 N 06	18	3	0.13	4.87	28.6	5.51	6.91	61.00	90.51
M27500A16 JF 3 N 06	16	3	0.13	5.28	22.3	5.92	7.25	72.36	106.74
M27500A14 JF 3 N 06	14	3	0.13	6.21	14.4	6.85	8.33	100.90	141.67
M27500A12 JF 3 N 06	12	3	0.13	7.16	9.3	7.80	9.39	138.85	188.08

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AEROSPACE

M27500A** JF + N 24

Filotex®

High Temperature Fire Resistant Shielded and Jacketed Cables

PRODUCT REFERENCES

FRM-(A)-US
M27500A JF + N 24**

CONSTRUCTION

CORES

① **Filotex**â **FRM-A-US** for AWG 22 and 20
Filotexâ **FRM-US** for other AWG

SCREEN

② Nickel Clad Copper Braided Screen

JACKET

③ Polyimide Tape

④ UV PTFE Tapes

Characteristics

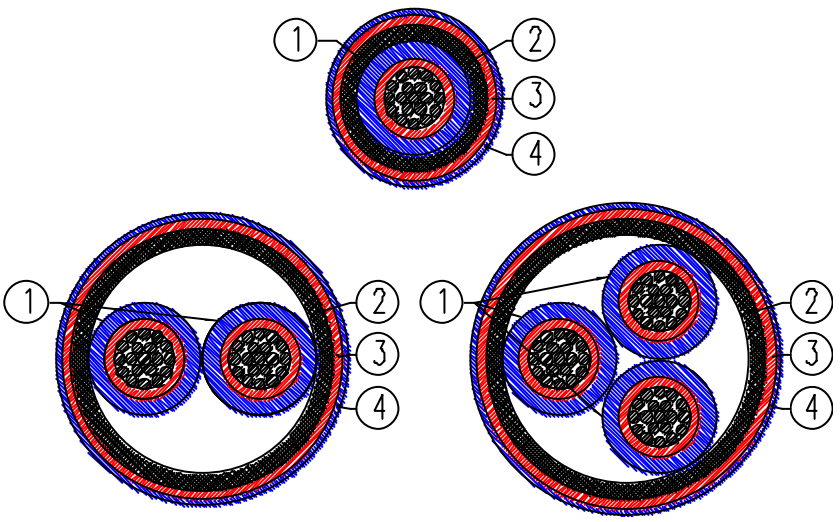
- Voltage Rating : 600 Volts RMS.
- Low Operating Temperature : -65°C (-85°F)
- High Operating Temperature : +200°C (+392°F)
- Operating Frequency : up to 2000 Hz.
- Dimensions and weight : see table on this data sheet.
- Good Fire Resistance.
- Good resistance to aircraft fluids.
- Good mechanical and electrical performances

Applications

- Fire Resistant Cable

Specification

- MIL W 25038/3
- MIL DTL 27500



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Number of Cores	Screen		Finished Cable				
			Strands (mm)	O.D. (mm) Nom.	Resistance at 20°C (68°F) of Cores (Ohms/Km) Max.	Diameter (mm) Nom.	Diameter (mm) Max.	Weight (Kg/Km) Nom.	Weight (Kg/Km) Max.
M27500A22 JF 1 N 24	22	1	0.10	1.74	77.8	2.11	2.42	11.44	14.84
M27500A20 JF 1 N 24	20	1	0.13	2.30	50.1	2.67	3.30	18.20	28.28
M27500A18 JF 1 N 24	18	1	0.13	2.54	28.0	2.91	3.65	22.82	32.50
M27500A16 JF 1 N 24	16	1	0.13	2.73	21.9	3.10	3.81	26.73	37.99
M27500A14 JF 1 N 24	14	1	0.13	3.16	14.2	3.53	4.31	36.50	49.89
M27500A12 JF 1 N 24	12	1	0.13	3.60	9.12	3.97	4.80	49.36	65.67
M27500A22 JF 2 N 24	22	2	0.13	3.20	79.4	3.57	3.93	22.25	29.23
M27500A20 JF 2 N 24	20	2	0.13	4.08	51.1	4.45	5.41	31.92	51.47
M27500A18 JF 2 N 24	18	2	0.13	4.56	28.6	4.93	6.11	40.90	59.51
M27500A16 JF 2 N 24	16	2	0.13	4.94	22.3	5.31	6.43	48.51	70.31
M27500A14 JF 2 N 24	14	2	0.13	5.80	14.4	6.17	7.43	67.64	93.54
M27500A12 JF 2 N 24	12	2	0.13	6.68	9.3	7.05	8.41	93.04	124.43
M27500A22 JF 3 N 24	22	3	0.13	3.41	79.4	3.78	4.15	29.36	37.85
M27500A20 JF 3 N 24	20	3	0.13	4.36	51.1	4.73	5.75	42.83	68.70
M27500A18 JF 3 N 24	18	3	0.13	4.87	28.6	5.25	6.50	55.74	79.58
M27500A16 JF 3 N 24	16	3	0.13	5.28	22.3	5.65	6.85	66.72	95.25
M27500A14 JF 3 N 24	14	3	0.13	6.21	14.4	6.58	7.93	94.39	128.40
M27500A12 JF 3 N 24	12	3	0.13	7.16	9.3	7.53	8.99	131.47	173.07

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AEROSPACE

BMS 13-55 Type 2 Class 1

Filotex®

High Temperature and Fire Resistant Aero-Engines Wires

PRODUCT REFERENCES

BMS 13-55 T2
BMS 13-55 T1

CONSTRUCTION

CONDUCTOR
① Made up with Nickel. Clad high strength. Copper alloy strands.

INSULATION
② Impregnated inorganic fiber.

③ TFE coated glass braid.

④ PTFE tapes (fused)

Characteristics

- Voltage rating : 600 Volts RMS,
- Low operating temperature : -65 °C (-85 °F),
- High operating temperature : +260 °C (+500 °F),
- Operating frequency : up to 2000 Hz,
- Dimensions and weight : see table on reverse of this datasheet,
- Very good fire resistance : BMS 13-55 fire test (aged and unaged),
- Very good mechanical and electrical performances,
- Good resistance to aircraft fluids.

Identification

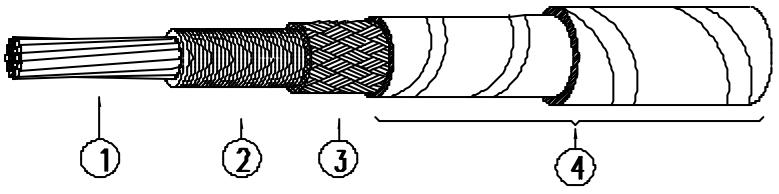
- Colors : White with Red Stripe.
- Marking : * W55/2/1-** F0241
  * = specification revision letter
  ** = AWG

Application

- Heavy-duty applications in Aero-engines and High Temperature Areas.

Specification

- BMS 13-55.



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

FILOTEX® PART NUMBER	US AWG	Conductor			Finished Wire					
		Stranding (Nbr of Strands X Diam. of Strands in mm.)	Diameter (mm)		Nominal Aera (mm^2)	Resistance at 20°C (68°F) (Ohms/Km.)	Diameter (mm)		Weight (Kg/Km)	
			Nom.	Max.		Max.	Min..	Max.	Min..	Max.
BMS 13-55 T2 C1 G22	22	19 x 0.16	0.79	0.84	0.38	80.81	2.08	2.29	8.97	9.91
BMS 13-55 T2 C1 G20	20	19 x 0.20	0.99	1.04	0.62	50.10	2.24	2.46	11.32	12.51
BMS 13-55 T2 C1 G18	18	19 x 0.25	1.24	1.32	0.96	32.05	2.44	2.67	14.88	16.44
BMS 13-55 T2 C1 G16	16	19 x 0.287	1.40	1.55	1.23	25.13	2.62	2.84	17.96	19.85
BMS 13-55 T2 C1 G14	14	19 x 0.36	1.78	1.88	1.94	16.31	2.97	3.25	25.79	28.51
BMS 13-55 T2 C1 G12	12	19 x 0.45	2.24	2.36	3.09	10.50	3.78	4.17	41.14	45.47
BMS 13-55 T2 C1 G10	10	7 x 7 x 0.36	3.10	3.25	5.02	6.33	4.65	5.08	63.60	70.29

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AEROSPACE

Filotex â Type ASNE0437

Filotex®

High Temperature Fire Resistant Cables

Applications

- Heavy Duty Applications in Aero-engines and High Temperature Areas

Main data

- Voltage rating : 600 Volts RMS.
- Operating temperature : -55°C to +260°C (Ambiant + Rise)
- Operating frequency : Up to 2000 Hz.
- Dimensions and weights : See table on this data sheet.
- Very Good Fire Resistance : According to MIL W 25038
- Good resistance to aircraft fluids.
- Good mechanical and electrical performances.

PRODUCT REFERENCES

ASNE0437 DL ++

CONSTRUCTION

CONDUCTOR

① Stranded conductor:
Nickel Clad High Strength Copper Alloy for size 22.
Nickel Clad Copper for other sizes.

INSULATION

② Special Fire Resistant Composite Insulation.

③ PTFE Tape(s).

Identification

- *Wire Standard Colour : White with red stripe*
- *Marking :*

Colour : Green

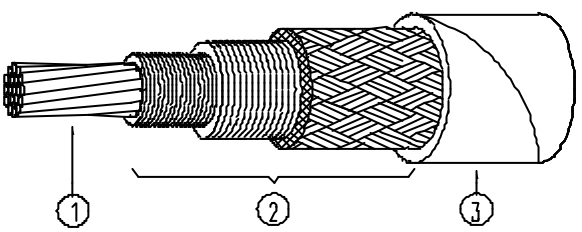
Wording : ■ **DL++ FRF**** ■ **DL++ FRF****

++ = AWG Wire Size
FR = Country of origin (FR=France)
F = Manufacturer (F= Filotex®)
** = Year of manufacturing (ie. 03=2003)*

Specifications

- ASNE0437

ASNE0437 DL



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Nexans

DIMENSIONS AND WEIGHTS (Metric Units)

PART NUMBERS	US AWG	Conductor			Finished Wire				
		Stranding (Nbr x Diam. of Strands in mm)	Diameter		Maximum DC Resistance at 20°C (Ohms/Km)	Diameter		Weight	
			Nom. (mm)	Maxi. (mm)		Min. (mm)	Max. (mm)	Nom. (g/m)	Max. (g/m)
ASNE0437 DL 22	22	19 x 0.160	0.78	0.84	84.0	1.93	2.11	8.33	9.7
ASNE0437 DL 20	20	19 x 0.204	0.98	1.04	47.8	2.13	2.36	11.38	13.4
ASNE0437 DL 18	18	19 x 0.254	1.22	1.32	30.0	2.38	2.61	15.08	17.1
ASNE0437 DL 16	16	19 x 0.287	1.40	1.55	22.5	2.51	2.97	18.22	21.6

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AEROSPACE

EN 2346-005
DW-DWB-DWC

Filotex®

Fireproof Cable
Single and Multicore assembly light weight

Applications

- Use in the on-board electrical systems of aircraft.

PRODUCT REFERENCES

EN 2346-005A xxx
EN 2346-005B xxx
EN 2346-005C xxx
EN 4608-004A xxx
EN 4608-004B xxx
EN 4608-004C xxx

CONSTRUCTION

Conductor

① Stranded conductor :
Nickel clad copper alloy for AWG 24 and 22.
Nickel clad copper for other AWG.

Insulation

② Fire resistant insulation

③ Polyimide Tape

④ PTFE Tape, UV laser markable (for single core)

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage rating : 600 Volts rms
- Operating frequency : up to 2000 Hz.
- Dimensions and weights : see table on this data sheet.
- Fire resistance : > 50 kΩ.
- Very good resistance to Aircraft Fluids.

Identification

- Core identification

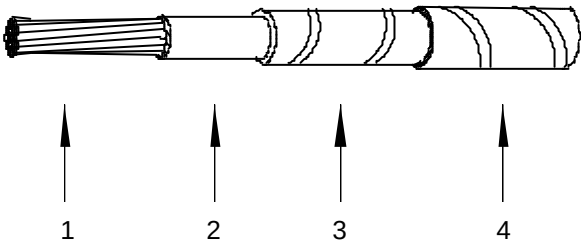
Colour : One core : White with a helical red stripe
Two cores : White with a helical red / blue stripe
Three cores : White with a helical red / blue / yellow stripe

- Marking

Wording : EN DW ++ FRF** for single core
EN DW A ++ FRF** for multicore core

With : DW = Short designation
++ = AWG Wire Size
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
** = Year of Manufacturing (ie. 03 = 2003)

Specification : EN2346-005



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Nexans

DIMENSIONS and WEIGHTS

REFERENCE	No of core	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
				DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
EN 2346-005A 002	1	002	24	131.0	1.20	1.65	5.0
EN 2346-005A 004	1	004	22	80.9	1.55	1.80	6.3
EN 2346-005A 006	1	006	20	44.3	1.80	1.97	9.0
EN 2346-005A 010	1	010	18	27.9	2.04	2.23	12.7
EN 2346-005A 012	1	012	16	18.8	2.28	2.50	17.0
EN 2346-005A 020	1	020	14	13.9	2.53	2.75	22.0
EN 2346-005B 004	2	004	22	82.5	-	3.60	12.98
EN 2346-005B 006	2	006	20	45.2	-	3.94	18.54
EN 2346-005B 010	2	010	18	28.5	-	4.46	26.16
EN 2346-005B 012	2	012	16	19.2	-	5.00	35.02
EN 2346-005B 020	2	020	14	14.2	-	5.80	45.32
EN 2346-005C 004	3	004	22	82.5	-	3.87	19.47
EN 2346-005C 006	3	006	20	45.2	-	4.23	27.81
EN 2346-005C 010	3	010	18	28.5	-	4.79	39.24
EN 2346-005C 012	3	012	16	19.2	-	5.37	52.53
EN 2346-005C 020	3	020	14	14.2	-	5.91	67.98

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AEROSPACE

EN 4608-004

Filotex®

Fireproof Cable
Single and Multi-cores Screened and Jacketed

Applications

❒ Use in the onboard electrical systems of aircraft.

PRODUCT REFERENCES

EN 4608-004A xxx
EN 4608-004B xxx
EN 4608-004C xxx
EN 2346-005

CONSTRUCTION

CORE
Conductor
① Stranded conductor :
Nickel clad copper alloy for AWG 22.
Nickel clad copper for other AWG.

Insulation
② Fireproof insulation

③ Polyimide Tape

④ PTFE Tape

SCREEN
⑤ Nickel plated copper braid

JACKET
⑥ UV PTFE Tape(s)

Electrical Characteristics

- ❒ Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- ❒ Voltage Rating : 600 Volts rms
- ❒ Operating frequency : up to 2000 Hz.
- ❒ Dimensions and weights : see table on this data sheet.
- ❒ Fire resistance : > 50 kΩ.
- ❒ Very good resistance to Aircraft Fluids.

Identification

❒ Core identification

Colours: Single core : White with a helical red stripe
Two cores : White with a helical red / blue stripe
Three cores : White with a helical red / blue / yellow stripe

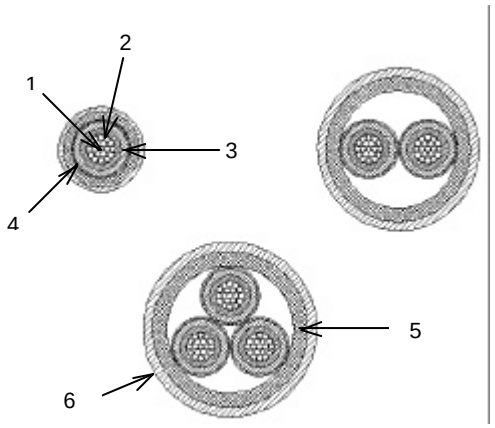
Marking *Wording* : EN DW A ++ FRF**

❒ Jacket identification colour: White with narrow red stripe

Marking *Wording* : EN £££ ++ FRF**

With : £££ = (single core : GPA, two cores : GPB, three cores : GPC)
++ = AWG Wire Size
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
** = Year of Manufacturing (ie. 03 = 2003)

Specification : EN 4608-004



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Nexans

DIMENSIONS and WEIGHTS

REFERENCE	Size Code	AWG	Finished Cable				
			Nbr of cores	Nom. Diameter of shield strands (mm)	DC Resistance at 20°C (Ohms/Km) Max.	Diameter (mm) Max.	Weight (g/m) Max.
EN 4608-004A 004	004	22	1	0.10	80.9	2.75	15.96
EN 4608-004A 006	006	20	1	0.10	44.3	2.93	19.50
EN 4608-004A 010	010	18	1	0.12	27.9	3.26	25.95
EN 4608-004A 012	012	16	1	0.12	18.8	3.50	31.67
EN 4608-004A 020	020	14	1	0.12	13.9	3.75	37.59
EN 4608-004B 004	004	22	2	0.12	82.5	4.40	29.47
EN 4608-004B 006	006	20	2	0.12	45.2	4.80	36.50
EN 4608-004B 010	010	18	2	0.12	28.5	5.30	46.20
EN 4608-004B 012	012	16	2	0.12	19.2	5.80	56.80
EN 4608-004B 020	020	14	2	0.12	14.2	6.30	69.00
EN 4608-004C 004	004	22	3	0.12	82.5	4.70	38.65
EN 4608-004C 006	006	20	3	0.12	45.2	5.10	48.80
EN 4608-004C 010	010	18	3	0.12	28.5	5.60	62.70
EN 4608-004C 012	012	16	3	0.12	19.2	6.20	78.00
EN 4608-004C 020	020	14	3	0.15	14.2	6.80	100.70

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AEROSPACE

ESW 1100-010-XXX

Filotex®

Filter Effect Cable
High Temperature Wire

Applications

- Aero engine services.

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :

  Passband : 10 MHz 0.3 dB/m (Max.)

  Stopband : 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

PRODUCT REFERENCES

ESW 1100-010-xxx
ESW 1101
ESW 1102

CONSTRUCTION

CONDUCTOR

① Stranded conductor :
Nickel plated high strength copper alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

INSULATION

② Polyimide Tape

③ Filter Layer

④ PTFE Tape

Identification

- Colour of wire : Dark Blue
- Marking

  Colour : White

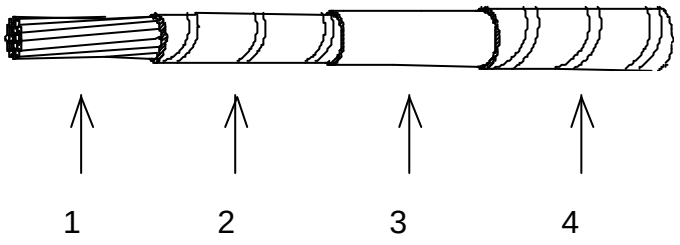
  Wording : ESW1100-010-xxx-FX-FF-**

  xxx = Size Code

  ** = Year of manufacturing.

Specification : ESW 1100-010-XXX

FILOTEX® ESW 1100-010-xxx



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Nexans

DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Conductor				Finished Cable		
		Construction (n x mm)	Diameter (mm)		DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Min.	Max.	Max.	Min.	Max.	Max.
ESW1100-010-004	004	19 x 0.15	0.72	0.80	59.7	1.0	1.5	6.00
ESW1100-010-006	006	19 x 0.20	0.94	1.04	35.2	1.3	1.8	9.00

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AEROSPACE

ESW 1101-+++-XXX

Filotex®

Filter Effect Cable
Unscreened and Unjacketed multicores

Applications

- Aero engine services.

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :
  - Passband : 10 MHz 0.3 dB/m (Max.)
  - Stopband : 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification

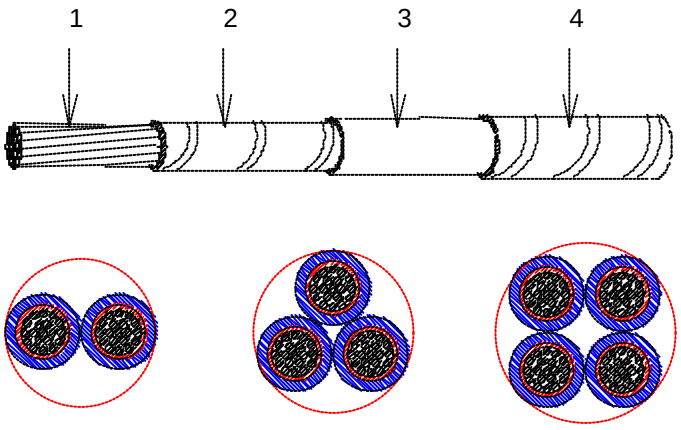
- Core identification Colours : Dark Blue
- Marking

  Wording : ESW1100-010-xxx-FX-FF-**

  xxx = Size Code ** = Year of manufacturing

Specification : ESW 1101-+++-XXX

FILOTEX® ESW 1100-010-xxx



PRODUCT REFERENCES

ESW 1101-021-xxx
ESW 1101-031-xxx
ESW 1101-041-xxx
ESW 1100
ESW 1102

CONSTRUCTION

CONDUCTOR

① Stranded conductor :
Nickel plated high strength copper alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

INSULATION

② Polyimide Tape

③ Filter Layer

④ PTFE Tape

ASSEMBLY

2, 3 or 4 cores

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DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Finished Cable					
		Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
ESW1101-021-004	004	2	Dark Blue	61.5	2.0	3.0	12.5
ESW1101-021-006	006	2		36.3	2.6	3.6	19.0
ESW1101-031-004	004	3	Dark Blue	61.5	2.2	3.3	19.6
ESW1101-031-006	006	3		36.3	2.8	3.9	28.8
ESW1101-041-004	004	4	Dark Blue	61.5	2.72	4.10	27.9
ESW1101-041-006	006	4		36.3	3.27	4.72	39.0

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AEROSPACE

ESW 1102-+++-XXX

Filotex®

Filter Effect Cable
Single and Multi-cores Screened and Jacketed

Applications

- Aero engine services.

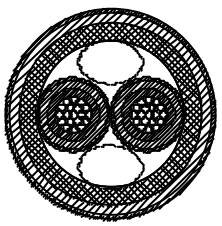
Electrical Characteristics

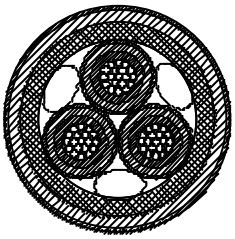
- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :
  - Passband : 10 MHz 0.3 dB/m (Max.)
  - Stopband : 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

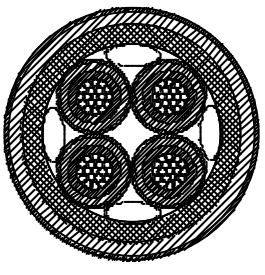
Identification

- Core identification *Colours*: Single core : White
  Two cores : Red – Blue
  Three cores : Red – Blue - Yellow
  Four cores : Red – Blue – Yellow – Green
  Jacket identification colour: Dark Blue
- Marking *Wording* : ESW1102-+++-xxx-FX-FF-**
  +++ = Form Code xxx = Size Code ** = Year of manufacturing

Specification : ESW1102-+++-XXX







PRODUCT REFERENCES

ESW 1102-012-xxx
ESW 1102-022-xxx
ESW 1102-032-xxx
ESW 1102-042-xxx
ESW 1100
ESW 1101

CONSTRUCTION

CORE
Conductor
① Stranded conductor :
Nickel plated high strength copper alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm
Insulation
② Polyimide Tape

③ Filter Layer

④ PTFE Tape

SCREEN
⑤ Nickel plated copper braid

JACKET
⑥ Polyimide Tape
⑦ PTFE Tape

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Nexans

DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Finished Cable					
		Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
ESW1102-012-004	004	1	White	59.7	2.0	2.80	19.8
ESW1102-012-006	006	1		35.2	2.4	3.35	28.3
ESW1102-022-004	004	2	1 Red 1 Blue	61.5	2.85	3.8	28
ESW1102-022-006	006	2		36.3	3.35	4.3	38
ESW1102-032-004	004	3	1 Red 1 Blue 1 Yellow	61.5	3.16	4.1	35.5
ESW1102-032-006	006	3		36.3	3.70	4.5	48.0
ESW1102-042-004	004	4	1 Red 1 Blue 1 Yellow 1 Green	61.5	4.06	5.74	59.1
ESW1102-042-006	006	4		36.3	4.89	6.37	74.1

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AEROSPACE

ESW 1700-010-XXX

Filotex®

Thermocouple, Nickel Chromium
Filter Effect Cable
High Temperature Wire

Applications

- Aero engine services.

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Ni-Cr single core for ESW 1702 thermocouple cable.
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :

  Passband : 10 MHz 0.3 dB/m (Max.)

  Stopband : 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification

- Colour of wire : White
- Marking

  Colour : Green

  Wording : ESW1700-010-xxx-FX-FF-**

  xxx = Size Code

  ** = Year of manufacturing.

PRODUCT REFERENCES

ESW 1700-010-xxx
ESW 1701-010
ESW 1702-022

CONSTRUCTION

CONDUCTOR

① Stranded conductor :
Nickel – chromium alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

INSULATION

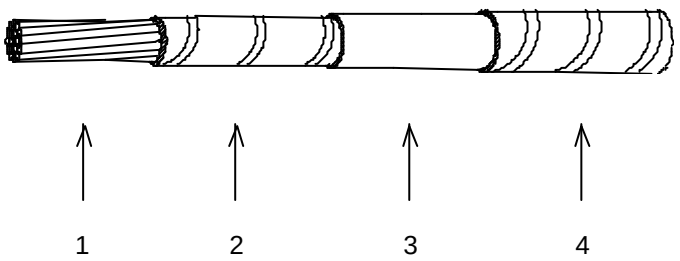
② Polyimide Tape

③ Filter Layer

④ PTFE Tape

Specification : ESW 1700-010-XXX

FILOTEX® ESW 1700-010-xxx



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Nexans

DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Conductor					Finished Cable		
		Construction (n x mm)	Diameter (mm)		DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Min.	Max.	Min.	Max.	Min.	Max.	Max.
ESW1700-010-004	004	19 x 0.15	0.72	0.80	1956	2364	1.0	1.5	6.00
ESW1700-010-006	006	19 x 0.20	0.94	1.04	1100	1330	1.3	1.8	8.50

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AEROSPACE

ESW 1701-010-XXX

Filotex®

Thermocouple, Nickel Aluminium
Filter Effect Cable
High Temperature Wire

Applications

- Aero engine services.

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Ni-Al single core for ESW 1702 thermocouple cable.
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :
  Passband : 10 MHz 0.3 dB/m (Max.)
  Stopband : 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

PRODUCT REFERENCES

ESW 1701-010-xxx
ESW 1700-010
ESW 1702-022

CONSTRUCTION

CONDUCTOR
① Stranded conductor :
Nickel – aluminium alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm

INSULATION
② Polyimide Tape

③ Filter Layer

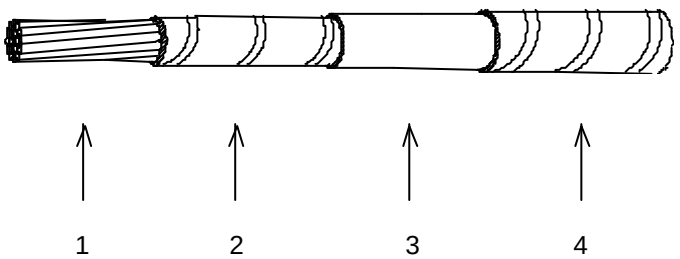
④ PTFE Tape

Identification

- Colour of wire : Green
- Marking
  Colour : White
  Wording : ESW1701-010-xxx-FX-FF-**
  xxx = Size Code
  ** = Year of manufacturing.

Specification : ESW 1701-010-XXX

FILOTEX® ESW 1701-010-xxx



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Nexans

DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Conductor					Finished Cable		
		Construction (n x mm)	Diameter (mm)		DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Min.	Max.	Min.	Max.	Min.	Max.	Max.
ESW1701-010-004	004	19 x 0.15	0.72	0.80	771	932	1.0	1.5	6.00
ESW1701-010-006	006	19 x 0.20	0.94	1.04	434	524	1.3	1.8	8.50

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AEROSPACE

ESW 1702-022-XXX

Filotex®

Ni-Cr/Ni-Al Thermocouple extension Filter Effect Cable Twin core Screened and Jacketed

Applications

- Aero engine services.

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 200 Volts rms
- Ni-Cr/Ni-Al Thermocouple extension cable
- Dimensions and weights : see table on this data sheet.
- Attenuation at 20°C and 260°C :
  - Passband : 10 MHz 0.3 dB/m (Max.)
  - Stopband : 18 GHz 100 dB/m (Min.)
- Very good resistance to Aircraft Fluids.

Identification

- Core identification *Colours*: White – Green
  Jacket identification *Colour*: Green
- Marking *Colour*: White
  Wording : ESW1702-022-xxx-FX-FF-**
  xxx = Size Code
  ** = Year of manufacturing

PRODUCT REFERENCES

ESW 1702-022-xxx
ESW 1700-010-xxx
ESW 1701-010-xxx

CONSTRUCTION

CORE
Conductor
① Stranded conductor :
Nickel-Chromium or Nickel-Aluminium alloy
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm
Insulation
② Polyimide Tape

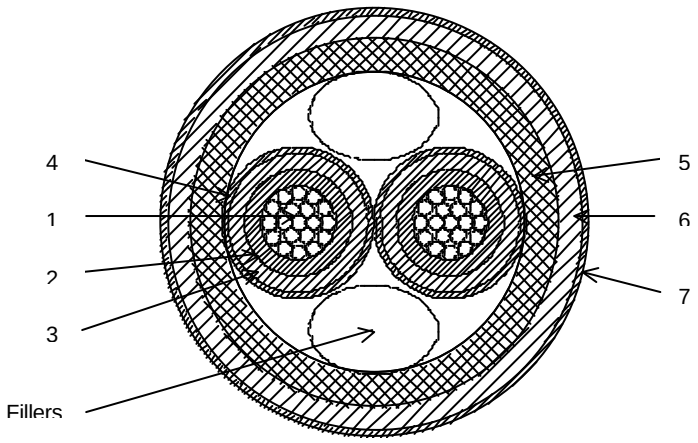
③ Filter Layer

④ PTFE Tape

SCREEN
⑤ Nickel plated copper braid

JACKET
⑥ Polyimide Tape
⑦ PTFE Tape

Specification : ESW1702-022-XXX



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Nexans

DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Finished Cable				
		Nbr of cores	Colours of cores	Diameter (mm)		Weight (g/m)
				Min.	Max.	Max.
ESW1702-022-004	004	2	1 White	2.85	3.8	28
ESW1702-022-006	006	2	1 Green	3.35	4.3	38

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AEROSPACE

ESW 1200-010-XXX
ESW 1201-010-XXX

Filotex®

Fire Resistant Cable
Single core

Applications

- Aero engine services.

PRODUCT REFERENCES
ESW 1200-010-xxx
ESW 1201-010-xxx
ESW 1202 / ESW 1203
-012-xxx
-022-xxx
-032-xxx
-042-xxx

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification :
  Colour : White with a helical red stripe
- Marking *Wording* : ESW1200-010-xxx-FX-FF-** or ESW1201-010-xxx-FX-FF-**
  With : xxx = Size Code
  ** = Year of manufacturing

Specification : ESW1200 / 1201-010-XXX

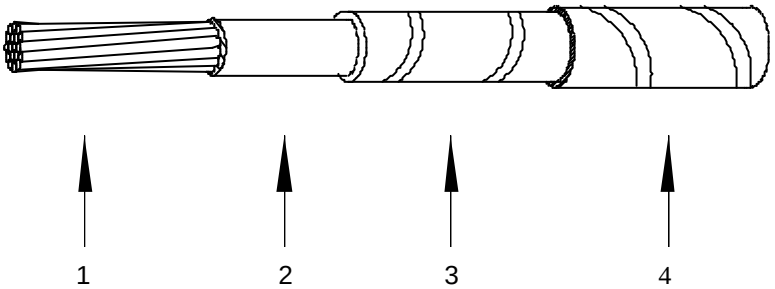
CONSTRUCTION

CONDUCTOR
① Stranded conductor :
Nickel clad copper alloy (ESW1200)
Nickel clad copper (ESW1201)

INSULATION
② Fire resistant insulation

③ Polyimide Tape

④ PTFE Tape



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Nexans

DIMENSIONS and WEIGHTS

ESW 1200

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1200-010-004	004	22	95	1.45	1.85	8.4
ESW1200-010-006	006	20	51.1	1.60	2.00	10.5
ESW1200-010-010	010	18	32.7	1.90	2.32	14.4
ESW1200-010-012	012	16	25.6	2.10	2.57	18.7

ESW 1201

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1201-010-004	004	22	87.9	1.45	1.85	8.4
ESW1201-010-006	006	20	43.6	1.60	2.00	10.5
ESW1201-010-010	010	18	27.9	1.90	2.32	14.4
ESW1201-010-012	012	16	21.9	2.10	2.57	18.7

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AEROSPACE

ESW 1202-+++-XXX
ESW 1203-+++-XXX

Filotex®

Fire Resistant Cable
Single and Multi-cores Screened and Jacketed

Applications

- Aero engine services.

PRODUCT REFERENCES

ESW 1202 / ESW 1203
-012-xxx
-022-xxx
-032-xxx
-042-xxx

ESW 1200
ESW 1201

CONSTRUCTION

CORE
Conductor
① Stranded conductor :
Nickel clad copper alloy (ESW1202)
Nickel clad copper (ESW1203)
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm
010 : 19 x 0.25 mm
012 : 19 x 0.30 mm
Insulation
② Fire resistant insulation

③ Polyimide Tape

④ PTFE Tape

SCREEN
⑤ Nickel plated copper braid

JACKET
⑥ PTFE Tape(s)

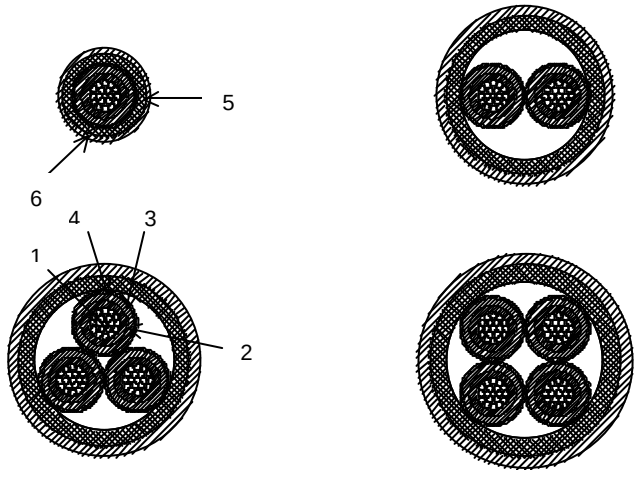
Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification *Colours*: Single core : White
  Two cores :Red – Blue
  Three cores : Red – Blue - Yellow
  Four cores : Red – Blue – Yellow – Green
  Jacket identification colour: White with narrow red stripe
- Marking *Wording* : ESW1202-+++-xxx-FX-FF-** or ESW1203-+++-xxx-FX-FF-**
  +++ = Form Code xxx = Size Code ** = Year of manufacturing

Specification : ESW1202 / ESW1203-+++-XXX



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Nexans

DIMENSIONS and WEIGHTS

ESW 1202

REFERENCE	Size Code	Finished Cable					
		Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
ESW1202-012-004	004	1	White	95.0	2.40	3.25	22.5
ESW1202-012-006	006	1		51.1	2.65	3.35	28.3
ESW1202-012-010	010	1		32.7	2.90	3.60	34.0
ESW1202-012-012	012	1		25.6	3.15	3.90	40.5
ESW1202-022-004	004	2	1 Red 1 Blue	96.9	3.89	5.35	43.5
ESW1202-022-006	006	2		52.1	4.21	5.64	50.6
ESW1202-022-010	010	2		33.4	4.70	6.00	60.3
ESW1202-022-012	012	2		26.1	5.20	6.50	72.8
ESW1202-032-004	004	3	1 Red 1 Blue 1 Yellow	96.9	4.10	5.65	55.7
ESW1202-032-006	006	3		52.1	4.40	5.97	67.0
ESW1202-032-010	010	3		33.4	5.16	6.40	81.0
ESW1202-032-012	012	3		26.1	5.54	6.80	94.0
ESW1202-042-004	004	4	1 Red 1 Blue 1 Yellow 1 Green	96.9	4.55	5.95	66.5
ESW1202-042-006	006	4		52.1	4.92	6.30	76.3
ESW1202-042-010	010	4		33.4	5.69	7.00	98.9
ESW1202-042-012	012	4		26.1	6.29	7.50	115.0

ESW 1203

REFERENCE	Size Code	Finished Cable					
		Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
ESW1203-012-004	004	1	White	87.9	2.40	3.25	22.5
ESW1203-012-006	006	1		43.6	2.65	3.35	28.3
ESW1203-012-010	010	1		27.9	2.90	3.60	34.0
ESW1203-012-012	012	1		21.9	3.15	3.90	40.5
ESW1203-022-004	004	2	1 Red 1 Blue	89.66	3.89	5.35	43.5
ESW1203-022-006	006	2		44.47	4.21	5.64	50.6
ESW1203-022-010	010	2		28.46	4.70	6.00	60.3
ESW1203-022-012	012	2		22.34	5.20	6.50	72.8
ESW1203-032-004	004	3	1 Red 1 Blue 1 Yellow	89.66	4.10	5.65	55.7
ESW1203-032-006	006	3		44.47	4.40	5.97	67.0
ESW1203-032-010	010	3		28.46	5.16	6.40	81.0
ESW1203-032-012	012	3		22.34	5.54	6.80	94.0
ESW1203-042-004	004	4	1 Red 1 Blue 1 Yellow 1 Green	89.66	4.55	5.95	66.5
ESW1203-042-006	006	4		44.47	4.92	6.30	76.3
ESW1203-042-010	010	4		28.46	5.69	7.00	98.9
ESW1203-042-012	012	4		22.34	6.29	7.50	115.0

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AEROSPACE

ESW 1250-010-XXX
ESW 1251-010-XXX

Filotex®

Fireproof Cable
Single core

Applications

- Use in essential services.

PRODUCT REFERENCES
ESW 1250-010-xxx
ESW 1251-010-xxx
ESW 1252 / ESW 1253
-012-xxx
-022-xxx
-032-xxx
-042-xxx

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification :
  Colour : White with a helical red stripe
- Marking *Wording* : ESW1250-010-xxx-FX-FF-** or ESW1251-010-xxx-FX-FF-**
  With : xxx = Size Code
  ** = Year of manufacturing

CONSTRUCTION

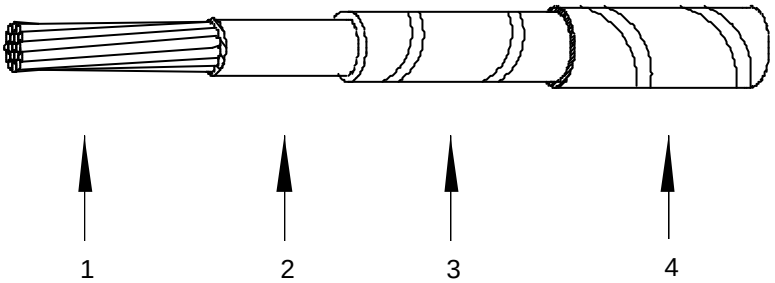
CONDUCTOR
① Stranded conductor :
Nickel clad copper alloy (ESW1250)
Nickel clad copper (ESW1251)

INSULATION
② Fire resistant insulation

③ Polyimide Tape

④ PTFE Tape

Specification : ESW1250 / ESW1251-010-XXX



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DIMENSIONS and WEIGHTS

ESW 1250

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1250-010-004	004	22	95	1.45	1.85	10.4
ESW1250-010-006	006	20	51.1	1.60	2.00	13.0
ESW1250-010-010	010	18	32.7	1.90	2.32	17.0
ESW1250-010-012	012	16	25.6	2.10	2.57	22.0

ESW 1251

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1251-010-004	004	22	87.9	1.45	1.85	10.4
ESW1251-010-006	006	20	43.6	1.60	2.00	13.0
ESW1251-010-010	010	18	27.9	1.90	2.32	17.0
ESW1251-010-012	012	16	21.9	2.10	2.57	22.0

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AEROSPACE

ESW 1252-+++-XXX
ESW 1253-+++-XXX

Filotex®

Fireproof Cable
Single and Multi-cores Screened and Jacketed

Applications

- Use in essential services.

PRODUCT REFERENCES

ESW 1252 / ESW 1253
-012-xxx
-022-xxx
-032-xxx
-042-xxx

ESW 1250
ESW 1251

CONSTRUCTION

CORE
Conductor
① Stranded conductor :
Nickel clad copper alloy (ESW1252)
Nickel clad copper (ESW1253)
004 : 19 x 0.15 mm
006 : 19 x 0.20 mm
010 : 19 x 0.25 mm
012 : 19 x 0.30 mm
Insulation
② Fireproof insulation

③ Polyimide Tape

④ PTFE Tape

SCREEN
⑤ Nickel plated copper braid

JACKET
⑥ PTFE Tape(s)

Electrical Characteristics

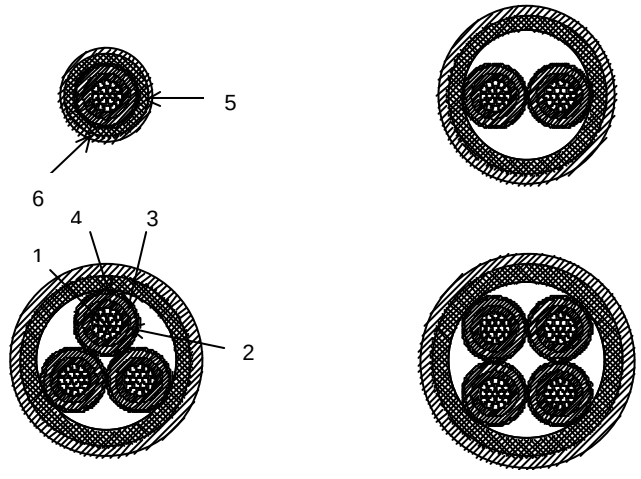
- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification *Colours*: Single core : White
  Two cores : Red – Blue
  Three cores : Red – Blue - Yellow
  Four cores : Red – Blue – Yellow – Green
  Jacket identification colour: White with narrow red stripe
- Marking *Wording* : ESW1252-+++-xxx-FX-FF-** or ESW1253-+++-xxx-FX-FF-**

+++ = Form Code xxx = Size Code ** = Year of manufacturing

Specification : ESW1252 / ESW1253-+++-XXX



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DIMENSIONS and WEIGHTS

ESW 1252

REFERENCE	Size Code	Finished Cable					
		Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
ESW1252-012-004	004	1	White	95.0	2.40	3.25	22.5
ESW1252-012-006	006	1		51.1	2.65	3.50	33.4
ESW1252-012-010	010	1		32.7	2.90	3.80	40.12
ESW1252-012-012	012	1		25.6	3.15	4.10	47.8
ESW1252-022-004	004	2	1 Red 1 Blue	96.9	3.89	5.35	43.5
ESW1252-022-006	006	2		52.1	4.21	5.64	50.6
ESW1252-022-010	010	2		33.4	4.70	6.00	60.3
ESW1252-022-012	012	2		26.1	5.20	6.50	72.8
ESW1252-032-004	004	3	1 Red 1 Blue 1 Yellow	96.9	4.10	5.65	55.7
ESW1252-032-006	006	3		52.1	4.40	5.97	67.0
ESW1252-032-010	010	3		33.4	5.16	6.40	81.0
ESW1252-032-012	012	3		26.1	5.54	6.80	94.0
ESW1252-042-004	004	4	1 Red 1 Blue 1 Yellow 1 Green	96.9	4.55	5.95	66.5
ESW1252-042-006	006	4		52.1	4.92	6.30	76.3
ESW1252-042-010	010	4		33.4	5.69	7.00	98.9
ESW1252-042-012	012	4		26.1	6.29	7.50	115.0

ESW 1253

REFERENCE	Size Code	Finished Cable					
		Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
ESW1253-012-004	004	1	White	87.9	2.40	3.25	22.5
ESW1253-012-006	006	1		43.6	2.65	3.50	33.4
ESW1253-012-010	010	1		27.9	2.90	3.80	40.12
ESW1253-012-012	012	1		21.9	3.15	4.10	47.8
ESW1253-022-004	004	2	1 Red 1 Blue	89.66	3.89	5.35	43.5
ESW1253-022-006	006	2		44.47	4.21	5.64	50.6
ESW1253-022-010	010	2		28.46	4.70	6.00	60.3
ESW1253-022-012	012	2		22.34	5.20	6.50	72.8
ESW1253-032-004	004	3	1 Red 1 Blue 1 Yellow	89.66	4.10	5.65	55.7
ESW1253-032-006	006	3		44.47	4.40	5.97	67.0
ESW1253-032-010	010	3		28.46	5.16	6.40	81.0
ESW1253-032-012	012	3		22.34	5.54	6.80	94.0
ESW1253-042-004	004	4	1 Red 1 Blue 1 Yellow 1 Green	89.66	4.55	5.95	66.5
ESW1253-042-006	006	4		44.47	4.92	6.30	76.3
ESW1253-042-010	010	4		28.46	5.69	7.00	98.9
ESW1253-042-012	012	4		22.34	6.29	7.50	115.0

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AEROSPACE

ESW 1254-010-002

Filotex®

Fireproof Cable
Single core

Applications

- Aero engine services.

PRODUCT REFERENCES

ESW 1254-010-002
ESW 1254-022-002

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

Identification

- Core identification :
  Colour : White with a helical red stripe
- Marking *Wording* : ESW1254-010-002-FX-FF-**
  With : FX = Country of origin
  FF = Manufacturer's code
  ** = Year of manufacturing

CONSTRUCTION

CONDUCTOR
① Stranded conductor :
Nickel clad copper alloy

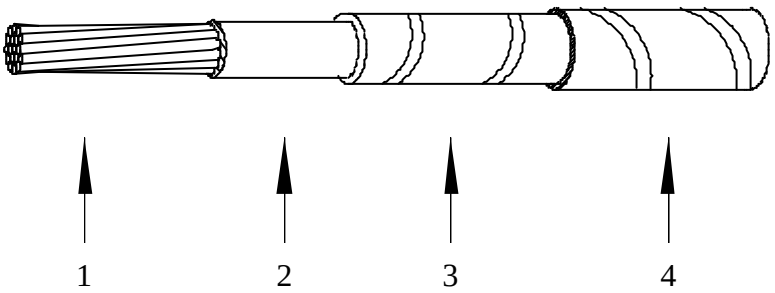
002 : 19 x 0.12 mm

INSULATION
② Fire resistant insulation

③ Polyimide Tape

④ PTFE Tape

Specification : ESW1254-010-002



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DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Gauge (AWG)	Finished Cable			
			DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
			Max.	Min.	Max.	Max.
ESW1254-010-002	002	24	131	1.20	1.65	9.50

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AEROSPACE

ESW
1254-022-002

Filotex®

Fireproof Cable
Two-cores Twisted Screened and Jacketed

Applications

- Aero engine services.

PRODUCT REFERENCES

ESW 1254-022-002
ESW 1254-010-002

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

CONSTRUCTION

CORE
Conductor
① Stranded conductor :
Nickel clad copper alloy
002 : 19 x 0.12 mm

Insulation
② Fire resistant insulation

③ Polyimide Tape

④ PTFE Tape

SCREEN
⑤ Nickel plated copper braid

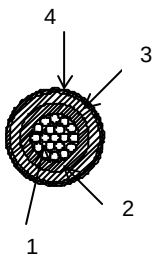
JACKET
⑥ PTFE Tape(s)

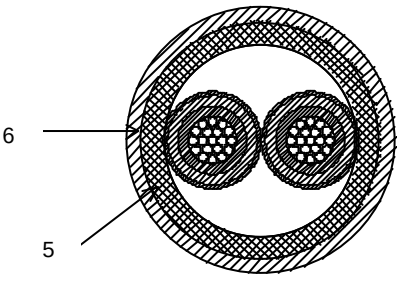
Identification

- Core identification *Colours*:
  Two cores : Red – Blue
  Jacket identification colour: White with narrow red stripe

- Marking *Wording* : ESW1254-022-002-FX-FF-**
  FX = Country of origin
  FF = Manufacturer's code
  ** = Year of manufacturing

Specification : ESW1254-022-002





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DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Finished Cable					
		Nbr of cores	Colours of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)		Weight (g/m)
				Max.	Min.	Max.	Max.
ESW1254-022-002	002	2	1 Red 1 Blue	135	2.95	4.45	38

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AEROSPACE

Filotex®

ESW 1600-010-XXX
Thermocouple Nickel Chromium
ESW 1601-010-XXX
Thermocouple Nickel Aluminium, Fire Resistant Cable

Applications

- Aero engine services.

PRODUCT REFERENCES

ESW 1600-010-xxx
ESW 1601-010-xxx
ESW 1602-022-xxx
ESW 1603-025-xxx

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

CONSTRUCTION

CONDUCTOR
① Stranded conductor :
Nickel chromium (ESW 1600)
Nickel Aluminium (ESW 1601)

INSULATION
② Fire resistant insulation

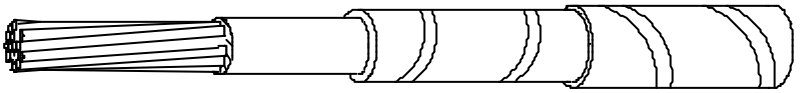
③ Polyimide Tape

④ PTFE Tape

Identification

- Core identification :
  Colour : White (ESW 1600)
  Green (ESW 1601)
- Marking *Wording* : ESW1600-010-xxx-FX-FF-**
- ESW1601-010-xxx-FX-FF-**
  With : xxx = Size Code
  ** = Year of manufacturing

Specification : ESW1600-010-XXX
Specification : ESW1601-010-XXX



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Nexans

DIMENSIONS and WEIGHTS

NICKEL CHROMIUM

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable				
			DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Min.	Max.	Min.	Max.	Max.
ESW1600-010-006	006	20	1100	1300	1.60	2.00	10.5
ESW1600-010-010	010	18	705	851	1.92	2.32	14.4
ESW1600-010-012	012	16	489	591	2.17	2.57	18.7
ESW1600-010-050	050	10	133	162	3.65	4.05	56.5

NICKEL ALUMINIUM

REFERENCE	Size Code (AECMA)	Gauge (AWG)	Finished Cable				
			DC Resistance at 20°C (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Min.	Max.	Min.	Max.	Max.
ESW1601-010-006	006	20	434	524	1.60	2.00	10.5
ESW1601-010-010	010	18	278	336	1.92	2.32	14.4
ESW1601-010-012	012	16	193	234	2.17	2.57	18.7
ESW1601-010-050	050	10	52	64	3.65	4.05	56.5

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AEROSPACE

ESW 1602-022-XXX

Filotex®

Fire Resistant Cable
Thermocouple Nickel Chromium/Nickel Aluminium

Applications

- Aero engine services.

PRODUCT REFERENCES

ESW 1602-022-xxx
ESW 1600
ESW 1601

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Dimensions and weights : see table on this data sheet.
- Very good fire resistance .
- Very good resistance to Aircraft Fluids.

CONSTRUCTION

CORE
Conductor
① Stranded conductor :
Nickel Chromium/
Nickel Aluminium
006 : 19 x 0.20 mm
010 : 19 x 0.25 mm
012 : 19 x 0.30 mm
050 : 61 x 0.32 mm

Insulation
② Fire resistant insulation

③ Polyimide Tape

④ PTFE Tape

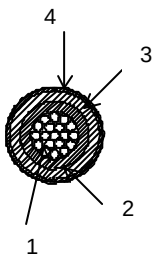
SCREEN
⑤ Nickel plated copper braid

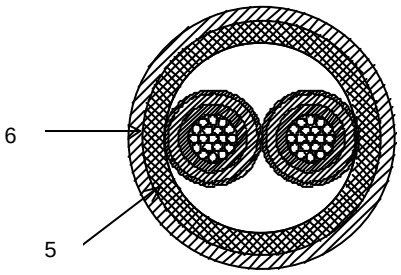
JACKET
⑥ PTFE Tape(s)

Identification

- Core identification Colours:
  Nickel Chromium : white
  Nickel Aluminium : green
  Jacket identification colour: Green with red stripe
- Marking : ESW1254-022-002-FX-FF-**
  xxx = size code
  FX = Country of origin
  FF = Manufacturer's code
  ** = Year of manufacturing

Specification : ESW1602-022-xxx





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DIMENSIONS and WEIGHTS

REFERENCE	Size Code	Finished Cable						
		DC Resistance at 20°C (Ohms/Km)				Diameter (mm)		Weight (g/m)
		Nickel Chromium		Nickel Aluminium		Min.	Max.	Max.
		Min.	Max.	Min.	Max.			
ESW1602-022-006	006	1122	1357	443	534	4.40	5.64	50.6
ESW1602-022-010	010	719	868	283	343	4.70	6.0	60.3
ESW1602-022-012	012	499	603	197	239	5.20	6.50	72.8
ESW1602-022-050	050	136	165	53	65	7.50	9.50	148.8

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AEROSPACE

Type " R M S " (R O H R)

Filotex®

PRODUCT REFERENCES

RMS

CONSTRUCTION

Several types of construction are possible :

① Single wire shielded and Jacketed

② Twisted cables

③ Two or more cores twisted shielded and Jacketed

④ Two or more cores twisted Unshielded Jacketed

Characteristics

- Construction : See. RMS *(next pages)*
- Voltage Rating : See. RMS *(next pages)*
- Operating Temperature : See. RMS *(next pages)*
- Diameters and weight according to Specification and Standards.

Identification

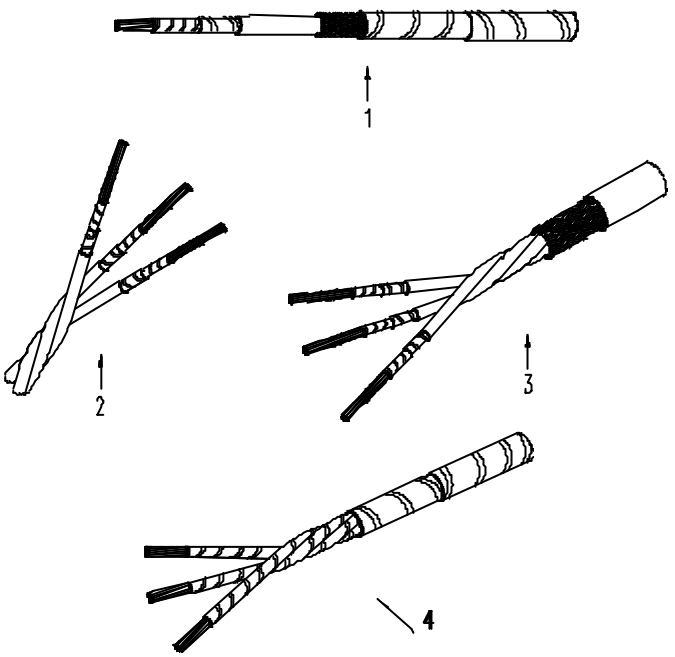
- Core Colors : See next pages.
- Marking : See next pages.

Applications

- Aircraft / Engines

Specifications

- **RMS** Revision and Date, see each type



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QPL — RMS 302 — Abrasion resistant

Rohr P/N	Construction	Comments	
RMS 302-** *(AWG 18 to 14)*	Conductor : Nickel - coated copper Insulated : PTFE jacket, reinforced with abrasion resistant mineral fillers	Color : Grey Marking : 2105-1-** F0241	**Voltage Rating** 600 V (RMS)
RMS 302-#-** *(AWG 18 to 14)*	Basic wires (RMS 302-**) twisted, to form a multi-conductor	Basic wire with a spiral colored stripe as follows : 2 cond. : Red, Blue 3 cond. : Red, Blue, Yellow 4 conductor : Red, Blue, Yellow, Green (Only basic wire shall be marked : '2105-#-** F0241')	
RMS 302-#SJ** *(AWG 18 to 14)*	Basic wires (RMS 302-**) or twisted cable Braid : Nickel coated copper Jacket : PTFE tapes (fused)	Single conductor : Grey + marking on core '1105-1-** F0241 Multi-conductors : 1st.cond.: Grey + Red stripe + marking : '2105-1-** F0241' 2nd.cond.:Grey + Blue stripe 3rd cond.: Grey + Yellow stripe 4th cond. : Grey + Green. stripe All Jackets : Grey ***** See note *****	**Temperature Rating** 260°C

= Number of conductor
** = AWG

Note : The cable product identification shall be printed on a marker tape placed beneath the shield : ('1105-#-** F0241')

Non QPL — RMS 320 — Low Noise Cable

QPL — RMS 322 — Miniature Firezone, high temperature

Rohr P/N	Construction	Color	
RMS 322-** ** = AWG *(AWG 18 to 8)*	Conductor : Nickel clad copper Insulated : Impregnated Inorganic fiber TFE coated glass braid PTFE tapes (fused)	Color : White Marking : 3101-1-**-LS F0241	**Voltage Rating** 600 V (RMS) **Temperature Rating** 260°C

QPL — RMS 323 — Miniature Firezone,high temperature, high strength copper alloy

Rohr P/N	Construction	Color	
RMS 323-** ** = AWG *(AWG 20 to 16)*	Conductor : Nickel clad, high strength copper alloy Insulated : Impregnated Inorganic fiber TFE coated glass braid PTFE tapes (fused)	Color : White Marking : 3101-1-**-MS F0241	**Voltage Rating** 600 V (RMS) **Temperature Rating** 260°C

QPL — RMS 324 — High temperature, NPC, severe wind and moisture problem (swamp) areas

Rohr P/N	Construction	Comments	
RMS 324-** *(AWG 18 to 0000)*	Conductor : Nickel - coated copper Insulated : PTFE tape + Polyimide tape PTFE coated glass tape (1/0 AWG through 4/0) PTFE coated glass braid Two or + PTFE tapes (fused)	Color : Light grey Marking : 324-1-** F0241 (18 AWG through 2) 324-** F0241 (1/0 AWG through 4/0)	**Voltage Rating**
RMS 324-#J-** *AWG 18,16 and 12*	Twisted and jacketed cable : Basic wires (RMS 324-**) Jacket : PTFE tapes (fused)	Cores : 2 cond. : Red, Blue 3 cond. : Red, Blue, Yellow 4 conductor : Red, Blue, Yellow, Green (Only red wire shall be marked : '324-#-**-LS F0241') Jacket : Grey. ***** See note *****	600 V (RMS)
RMS 324-#SJ-** *AWG 18,16 and 14*	Shielded and jacketed wire and cable : or twisted cable Braid : Nickel plated copper Jacket : PTFE tapes (fused)	Single conductor : Grey + marking on core '1124-1-** F0241 Multi-conductors : 1st.cond.: Red + marking '324-1-**-LS F0241' 2nd.cond.:Blue 3rd cond.: Yellow 4th cond. : Green Jacket : Grey. ***** See note *****	**Temperature Rating** 260°C

= Number of conductor
* = AWG

Note : The cable product identification shall be printed on a marker tape placed beneath the jacket ('1124-#-**-GLS F0241') , or beneath the shield ('1124-#-**-LS F0241'), *according to jacketed or shieldded and jacketed cable.*

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QPL	RMS 326	Miniature Firezone, high temperature (CFMI ENGINES)	
Rohr P/N	**Construction**	**Comments**	**Voltage Rating**
RMS 326-#SJ-** *(AWG 18 to 14)*	Shielded and jacketed single or multi-conductor cables twisted together : (Basic wire : See RMS 322-**) Braid : Nickel plated copper PTFE tape PTFE coated glass braid Jacket : PTFE tapes (fused)	Single conductor : White + marking on core '1126-1-**-LS F0241 Multi-conductors : 1st.cond.: Red + marking '3101-1-**-LS F0241' 2nd.cond.:Blue 3rd cond.: Yellow 4th cond. : Green Jacket : White. The cable product identification shall be printed on a marker tape placed beneath the shield : '1126-#-**-LS F0241'	600 V (RMS) **Temperature Rating** 260°C
# = Number of conductor		** = AWG	

QPL	RMS 327	Miniature Firezone, high temperature, high strength copper alloy (CFMI ENGINES)	
Rohr P/N	**Construction**	**Comments**	**Voltage Rating**
RMS 327-#SJ-** *(AWG 20 to 16)*	Shielded and jacketed single or multi-conductor cables twisted together : (Basic wire : See RMS 323-**) Braid : Nickel plated copper PTFE tape PTFE coated glass braid Jacket : PTFE tapes (fused)	Single conductor : White + marking on core '1127-1-**-MS F0241 Multi-conductors : 1st.cond.: Red + marking '3101-1-**-MS F0241' 2nd.cond.:Blue 3rd cond.: Yellow 4th cond. : Green Jacket : White. The cable product identification shall be printed on a marker tape placed beneath the shield : '1127-#-**-MS F0241'	600 V (RMS) **Temperature Rating** 260°C
# = Number of conductor		** = AWG	

QPL	RMS 328	Miniature Firezone, high temperature	
Rohr P/N	**Construction**	**Comments**	**Voltage Rating**
RMS 328-#J-** *(AWG 18 to 16)*	Twisted and jacketed cable : Basic wires (RMS 322-**) Separator polyimide tape Jacket : PTFE tapes (fused)	Cores : 2 cond. : Red, Blue 3 cond. : Red, Blue, Yellow 4 conductor : Red, Blue, Yellow, Green (Only red wire shall be marked : '3101-1-**-LS F0241') Jacket : White. ***** See note *****	600 V (RMS)
RMS 328-#SJ-** *(AWG 18 to 16)*	Shielded and jacketed single or multi-conductor cables, twisted together : (Basic wire : RMS 322-**) Braid : Nickel plated copper Jacket : PTFE tapes (fused)	Single conductor : White + marking on core '1128-1-**-LS F0241 Multi-conductors : 1st.cond.: Red + marking '3101-1-**-LS F0241' 2nd.cond.:Blue 3rd cond.: Yellow 4th cond. : Green Jacket : White. The cable product identification shall be printed on a marker tape placed beneath the shield : '1128-#-**-LS F0241'	**Temperature Rating** 260°C
# = Number of conductor * = AWG	**Note :** The cable product identification shall be printed on a marker tape placed beneath the jacket : '3101-#-**-GLS F0241'		

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QPL	RMS 329	Rev.N	Date : 14/05/99

Miniature Firezone, high temperature, high strength copper alloy

Rohr P/N	Construction	Comments	Voltage Rating
RMS 329-#J-** *(AWG 20 to 16)*	Twisted and jacketed cable : Basic wires (RMS 323-**) Separator polyimide tape Jacket : PTFE tapes (fused)	Cores : 2 cond. : Red, Blue 3 cond. : Red, Blue, Yellow 4 conductor : Red, Blue, Yellow, Green (Only red wire shall be marked : '3101-1-**-MS F0241') Jacket : White. ***** See note *****	600 V (RMS)
RMS 329-#SJ-** *(AWG 20 to 18)*	Shielded and jacketed single or multi-conductor cables, twisted together : (Basic wire : RMS 323-**) Braid : Nickel plated copper Jacket : PTFE tapes (fused)	Single conductor : White + marking on core '1129-1-**-LS F0241 Multi-conductors : 1st.cond.: Red + marking '3101-1-**-MS F0241' 2nd.cond.:Blue 3rd cond.: Yellow 4th cond. : Green Jacket : White. The cable product identification shall be printed on a marker tape placed beneath the shield : '1129-#-**-MS F0241'	**Temperature Rating** 260°C

# = Number of conductor * = AWG	**Note :** The cable product identification shall be printed on a marker tape placed beneath the jacket : '3101-#-**-GMS F0241'

QPL	RMS 332	Rev.E Date : 08/02/96 S.C.O. 3 Date : 19/07/96

High temperature, high strength copper alloy, severe wind and moisture problem (swamp) areas

Rohr P/N	Construction	Comments	
RMS 332-** *(AWG 20 to 16)*	Conductor : Nickel coated high strength copper alloy Insulated : PTFE tape Polyimide tape PTFE coated glass braid Two PTFE tapes (fused)	Color : Light grey Marking : 332-1-**-MS F0241	**Voltage Rating** 600 V (RMS)
RMS 332-#J-** *(AWG 20 to 16)*	Twisted and jacketed cable : Basic wires (RMS 332-**) Separator polyimide tape Jacket : PTFE tapes (fused)	Cores : 2 cond. : Red, Blue 3 cond. : Red, Blue, Yellow 4 conductor : Red, Blue, Yellow, Green (Only red wire shall be marked : '332-1-**-MS F0241') Jacket : White. ***** See note *****	**Temperature Rating**
RMS 332-#SJ-** *(AWG 20 to 16)*	Shielded and jacketed single or multi-conductor cables, twisted together : (Basic wire : RMS 332-**) Braid : Nickel plated copper Jacket : PTFE tapes (fused)	Single conductor : White + marking on core '1132-1-**-MS F0241 Multi-conductors : 1st.cond.: Red + marking '332-1-**-MS F0241' 2nd.cond.:Blue 3rd cond.: Yellow 4th cond. : Green Jacket : White. The cable product identification shall be printed on a marker tape placed beneath the shield : '1132-#-**-MS F0241'	260°C

# = Number of conductor * = AWG	**Note :** The cable product identification shall be printed on a marker tape placed beneath the jacket : '332-#-**-GMS F0241'

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AEROSPACE

Type 3000 A

Filotex®

Fire resistant cables

To AIR 4527, B.N.Aé
These cables are approved by the Air Ministry under letters :
N°31573 STA/EQ/E2 (10-02-65)
Registered at the B.N.Aé : N° 6418 400 C
Operating voltage: 600 volts RMS
Operating temperature: - 50°C to + 280°C
(ambient + rise)

PRODUCT REFERENCES

3000 A

Characteristics:

- These cables are used at high ambient temperatures, up to 300°C at peak,
- They withstand a 1090°C flame applied for 5 minutes under a 250 V d.c. voltage,
- Non-flammable,
- They withstand most solvents.

Technical requirements and control conditions:

- Air4527 Specification (high temperature cables and fire resistant cables),
- B.N.Aé NF.L 52-127 Specification of July 1978,R.C.Aéro 140-55 A of March 1962.

Interchangeability:

- MIL-W-25038 D Specification of January 1972.

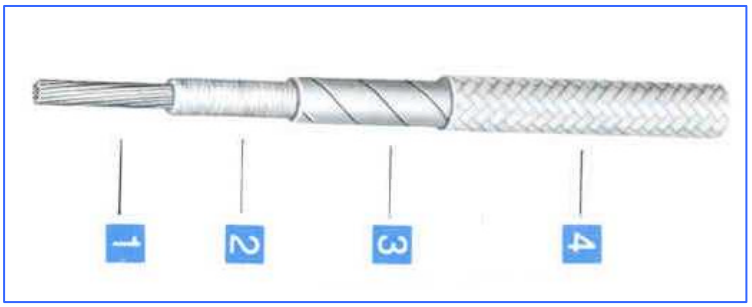
CONSTRUCTION

① CONDUCTOR
Stranded nickel clad copper

② Feltlike winding of siliceous fibres

③ INSULATION
PTFE (wrapped)

④ BRAID
Glass fiber braid coated with a PTFE varnish
Colour coding: in natural colour + red stripe (printed indentification is possible on the braid)



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MECHANICAL & ELECTRICAL VALUES

References		Gauge	CONDUCTOR			CORE		ELECTRICAL VALUES	
			Construction	Nominal diameter	Tensile Strength	Overall diameter + 0.1	Average Weight	D.C. Resistance at 20°C (maxi.)	Current rating
Type	Cross Sectional aera	AWG	n x Ø mm	mm	daN	mm	g/m	Ω / km	A
3000A	0.38	22	12 x 0.20	0.85	10.5	2.5	9.5	71.20	7
3000A	0.60	20	19 x 0.20	1.03	16.5	2.8	12.5	45.00	11
3000A	0.93	18	19 x 0.25	1.28	24.0	3.1	17.5	28.80	16
3000A	1.34	16	19 x0.30	1.53	> 30.0	3.5	21.5	20.00	22
3000A	1.91	14	27 x0.30	1.87	> 30.0	4.0	31.5	14.40	32
3000A	3.18	12	45 x0.30	2.40	> 30.0	4.5	47.5	8.45	41
3000A	5.15	10	73 x0.30	3.10	> 30.0	5.3	71.0	5.20	55
3000A	8.98	8	127 x 0.30	4.20	> 30.0	6.7	114.0	3.00	75
3000A	13.40	6	27 x 7 x 0.30	5.60	> 30.0	8.1	172.0	2.07	100
3000A	21.80	4	37 x 12 x 0.25	7.30	> 30.0	9.6	262.0	1.27	135
3000A	34.50	2	37 x 19 x 0.25	8.80	> 30.0	11.5	414.0	0.80	181
3000A	41.80	1	37 x 23 x 0.25	9.80	> 30.0	12.8	480.0	0.66	211
3000A	52.70	0	37 x 29 x 0.25	10.80	> 30.0	14.2	618.0	0.52	245
3000A	67.20	00	37 x 37 x 0.25	12.40	> 30.0	15.7	781.0	0.41	283

The currents shown are valid for single wires in air. If the ambient temperature is lower than 250°C the current ratings can be above those quoted in Air 7822 Specification, provided that the conductor temperature does not exceed 300°C. For cables in bundle please refer to Air 7822 Specification.

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AEROSPACE

BMS 13-67
310 °C Rating
TMF 350-A FLEX SBJ

Filotex®

Very High Temperature Fire Resistant Shielded and Jacketed Cables

Applications

- Aero Engines and Very High Temperature Applications

Main data

- Voltage/Frequency Rating : 600 Volts RMS/2000 Hz Max.
- Operating Temperature : 20,000 hours at +313°C (595°F)
  : or 10,000 hours at +321°C (610°F).
- Dimensions and weights : See Tables on This Data Sheet.
- Fire Resistance : Insulation resistance 10,000 Ohms Minimum.
- Bend Radius : Minimum 5 times cable O.D.

PRODUCT REFERENCES

TMF 350-A FLEX SBJ
BMS13-67T02C0*G0**

CONSTRUCTION

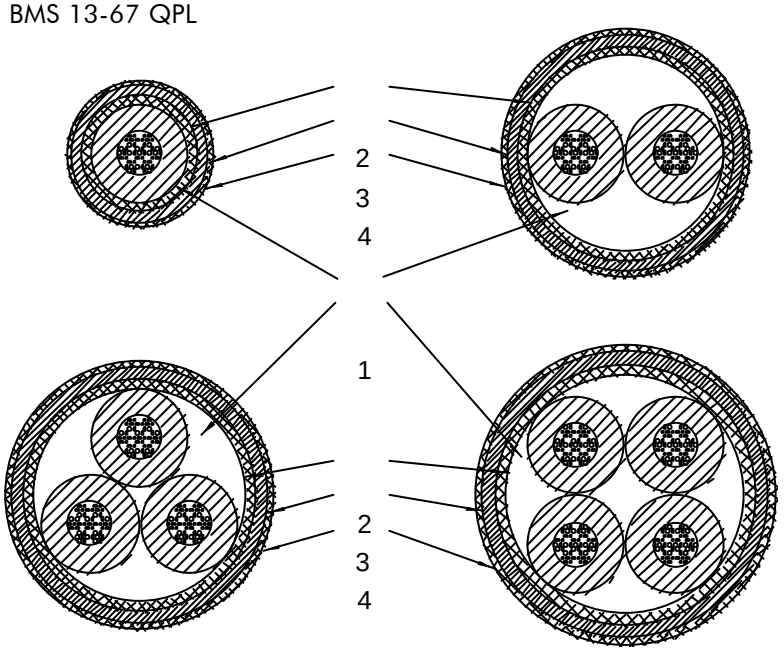
CORE(S)
① Conductor:
Nickel Clad High Strength Copper Alloy Conductor
US Sizes
Insulation:
.Very High Temperature and Fire Resistant insulation
.High Temperature PTFE Tapes
. PTFE Coated Fiber Glass Braid

SHIELD
② Nickel Clad Copper Braid

JACKET
③ High Temperature PTFE Tapes
④ PTFE Coated Fiber Glass Braid

Specification

- BMS 13-67 QPL



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DIMENSIONS AND WEIGHTS (METRIC UNITS)

BASIC CORE

FILOTEX â PART NUMBER	US AWG	Conductors			Finished Wire				
		Strands (Nbr x mm)	O.D. (mm)		Maximum DC Resistance (Ohms/Km)		Diameter (mm)		Weight (g/m)
			Nom.	Max .	at 23°C (73°F)	at 370°C (698°F)	Nom.	Max.	Nom.
BMS13-67T0*C01G022	22	37 x 0.115	0.78	0.84	80.8	192.59	2.49	2.61	11.33
BMS13-67T0*C01G020	20	7 x 7 x 0.115	0.99	1.04	50.1	118.37	2.65	2.78	12.72
BMS13-67T0*C01G018	18	7 x 7 x 0.150	1.30	1.32	32.0	74.28	2.91	3.03	16.70
BMS13-67T0*C01G016	16	7 x 7 x 0.175	1.51	1.55	25.1	55.77	3.10	3.22	20.11
BMS13-67T0*C01G014	14	7 x 7 x 0.210	1.81	1.88	16.3	36.09	3.38	3.52	25.52
BMS13-67T0*C01G012	12	7 x 7 x 0.270	2.33	2.36	10.5	23.23	3.92	4.04	37.21
BMS13-67T0*C01G010	10	7 x 7 x 0.360	3.11	3.25	6.34	14.01	4.78	4.92	59.90

FINISHED CABLE

FILOTEX â PART NUMBER	US AWG	Nbr of Cores	Shield		Finished Cable						
			Strands O.D. (mm)	O.D. (mm)	Resistance at 20°C (68°F) of Cores (Ohms/Km)	Diameter (mm)			Weight (g/m)		
				Nom.	Max.	Min.	Nom.	Max.	Min.	Nom.	Max.
BMS13-67T02C01G022	22	1	0.13	3.01	80.8	3.53	3.71	3.89	27.83	29.60	31.37
BMS13-67T02C01G020	20	1	0.13	3.17	50.1	3.66	3.87	4.06	30.03	31.95	33.87
BMS13-67T02C01G018	18	1	0.13	3.43	32.0	4.04	4.18	4.34	35.77	38.06	40.34
BMS13-67T02C01G016	16	1	0.13	3.62	25.1	4.19	4.36	4.55	39.51	42.02	44.55
BMS13-67T02C01G014	14	1	0.13	3.90	16.3	4.47	4.68	4.88	47.62	50.12	52.63
BMS13-67T02C01G012	12	1	0.13	4.44	10.5	5.03	5.19	5.33	61.60	64.85	68.09
BMS13-67T02C01G010	10	1	0.13	5.30	6.34	5.87	6.04	6.22	87.99	92.61	97.26
BMS13-67T02C02G022	22	2	0.13	5.50	82.4	6.02	6.32	6.63	49.64	52.81	55.98
BMS13-67T02C02G020	20	2	0.13	5.82	51.1	6.30	6.62	6.96	53.61	57.04	60.46
BMS13-67T02C02G018	18	2	0.13	6.34	32.7	6.86	7.13	7.42	63.64	67.70	71.77
BMS13-67T02C02G016	16	2	0.13	6.72	25.6	7.21	7.52	7.82	72.12	76.74	81.33
BMS13-67T02C02G014	14	2	0.13	7.28	16.6	7.77	8.10	8.43	86.44	90.99	95.53
BMS13-67T02C03G022	22	3	0.13	5.89	82.4	6.35	6.68	7.01	64.74	68.86	73.00
BMS13-67T02C03G020	20	3	0.13	6.23	51.1	6.65	7.02	7.37	70.58	75.08	79.59
BMS13-67T02C03G018	18	3	0.13	6.79	32.7	7.29	7.60	7.90	85.37	90.81	96.26
BMS13-67T02C03G016	16	3	0.13	7.20	25.6	7.67	8.00	8.33	97.12	103.31	109.52
BMS13-67T02C03G014	14	3	0.13	7.80	16.6	8.28	8.60	8.94	117.08	123.24	129.41
BMS13-67T02C04G022	22	4	0.13	6.53	82.4	6.99	7.34	7.70	80.50	85.63	90.77
BMS13-67T02C04G020	20	4	0.13	6.92	51.1	7.34	7.71	8.10	87.78	93.39	98.98
BMS13-67T02C04G018	18	4	0.13	7.54	32.7	8.00	8.34	8.66	106.51	113.31	120.11
BMS13-67T02C04G016	16	4	0.13	8.00	25.6	8.43	8.80	9.14	122.21	130.01	137.80
BMS13-67T02C04G014	14	4	0.13	8.68	16.6	9.09	9.47	9.86	148.19	156.00	163.80

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Filotex®

Filotex® Study 124585
Very High Temperature Fire Resistant Wires

Aero Engines and Very High Temperature Applications

PRODUCT REFERENCES

FILOTEX Ref : **ET 124 585**

CONSTRUCTION

CORE (study 124521)

① 19 strands of Nickel Clad Copper conductor (Diameter of strands: 0.287 mm)

② Special Fire Resistant Composite Insulation, very high temperature.

SCREEN

③ Nickel Clad Copper Helicoidal Screen (Diameter of strands: 0.13mm)

JACKET

④ Very high temperature resistant composite

Characteristics

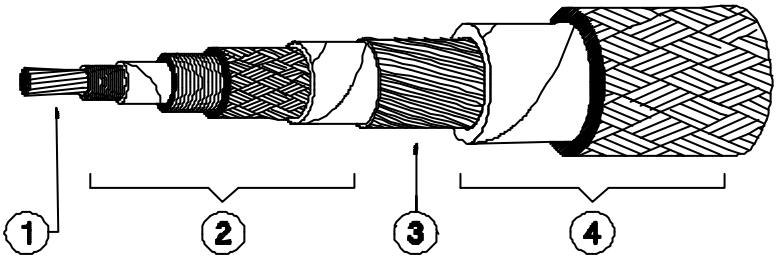
- Tension/Frequency Rating : 600 Volts RMS/2000 Hz Max.
- Operating Temperatures : -65°C/+300°C
- Operating Life (Approx) : 30 Hours at +370°C
  Or 300 Hours at +350°C
  Or 330 Hours at +310°C
  Or 2500 Hours at +300°C
  Or 32840 Hours at +260°C
  Total of 36000 hours
- Dimensions and Weights : See Table on Reverse Side of This Data Sheet
- Fluids Resistance : According to BMS 13-55.

Applications

- Heavy Duty Applications in Aero-engines and Very High Temperature Areas.

Specification

- BMS 13-55 For Fire and Fluids Resistance
- ST 448 006 3 01 A



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DIMENSIONS AND WEIGHTS

FILOTEX® Reference	US AWG	Conductor					Insulation		Screen		Finished cable		
		Construction (N x mm)	Diameter (mm)		DC resistance (Ohms/Km)		Diameter (mm)		∅ Strands (mm)	∅ Nom. (mm)	Ext. Diameter (mm)		Weight (Kg/Km)
			Nom.	Max.	Max.at 20°C	Nomi. at 370°C	Nom.	Max.			Mini.	Max.	Max.
Et.124585	16	19 x 0.287	1.40	1.55	22.5	55.8	2.90	3.40	0.13	3.45	4.15	4.45	42

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Part 4

Coaxial cables for high frequency transmission

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AEROSPACE

SP 124962
STUDY 124962

Filotex®

Laser UV miniature coaxial cable

Basic study : 122715 (UV Laser markable Jacket)

Electrical characteristics

- Characteristic impedance : 50 ± 5 Ω
- Linear capacitance at 1 kHz
  - Nominal value : 90 pF/m
  - Maximal value : 100 pF/m
- Attenuation at 10 MHz : 0.09 dB/m
  - 100 MHz : 0.26 dB/m
  - 200 MHz : 0.37 dB/m
  - 500 MHz : 0.65 dB/m
  - 1000 MHz : 1.06 dB/m
  - 1500 MHz : 1.33 dB/m
- Voltage rating : 250 Volts Eff 50 Hz.
- Voltage withstanding: between dielectric and shield: 3000 Volts Eff 50 Hz.
- Jacket spark test : 5000 Volts impulse.
- DC resistance at 20°C: ≤ 144 ohms/Km.
- Insulation resistance :
  between dielectric and shield : ≥1500 Mohms . Km.
  Jacket: ≥1500 Mohms . Km.
- Nominal relative velocity of propagation : 76%

Physical characteristics

- Nominal weight : 13.0 g/m
- Maximum weight : 14.0 g/m.
- Minimum bending radius :
  - Static : 12 mm.
  - Dynamic : 25 mm.
- Strippability : mechanical device or automatic stripper.
- Temperature rating: -65°C to +150°C
- Outer jacket color : green

PRODUCT REFERENCES

ET 124962
ET 124964

CONSTRUCTION

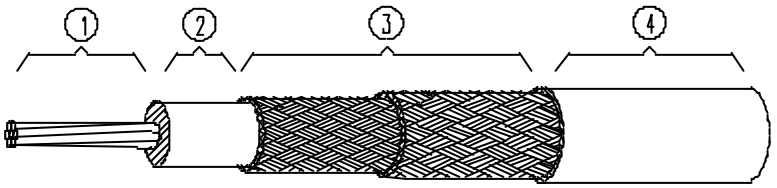
① CONDUCTOR
19 x 0.098 mm
Silvered alloy
Nom. diameter = 0.48 mm.

② INSULATION
Expansed PTFE
Nom. diameter = 1.35 mm

③ SHIELD
Silver plated copper 7/100
Coverage ≥ 62 %

④ SHIELD
Silver plated copper 7/100
Coverage ≥ 62 % US
Nom. diameter = 2.00 mm

⑤ JACKET
Laser UV ETFE markable
OD 2.35 ± 0.05 mm



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Fax : + 33 1 69 42 05 70

Nexans

Physical characteristics

- Fire resistance : No flame propagation (NFC 32070/C1)
  Low smoke emission
- Resistance to fluids : good resistance to aircraft fluids.

Applications

- With similar transmission characteristics to KX 22A / RG 316U,
- This cable has the following advantages :
  - Lower diameter and weight .
  - Better bendability.
  - Better screening effectiveness (Double braid)
  - UV Laser marquability
- Recommended for Aeronautics uses and miniature systems.

Specifications :

- NFC 93 550 and MIL C 17

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AEROSPACE

SP 124963
STUDY 124963

Filotex®

Laser UV miniature coaxial cable

Basic study : 123775 (FEP Jacket)

Electrical characteristics

- Characteristic impedance : 75 ± 5 Ω
- Linear capacitance at 1 kHz
  - Nominal value : 60 pF/m
  - Maximal value : 65 pF/m
- Attenuation at 10 MHz : 0.09 dB/m
  - 100 MHz : 0.26 dB/m
  - 200 MHz : 0.37 dB/m
  - 500 MHz : 0.65 dB/m
  - 1000 MHz : 0.84 dB/m
  - 1500 MHz : 1.05 dB/m
- Voltage rating : 250 Volts Eff 50 Hz.
- Voltage withstanding: between dielectric and shield: 3000 Volts Eff 50 Hz.
- Jacket spark test : 5000 Volts impulse.
- Insulation resistance : between dielectric and shield : ≥1500 Mohms . Km.
- Nominal relative velocity of propagation : 76%

Physical characteristics

- Nominal weight : 12.5 g/m
- Maximum weight : 14.0 g/m.
- Minimum bending radius :
  - Static : 12 mm.
  - Dynamic : 25 mm.
- Strippability : mechanical device or automatic stripper.
- Temperature rating: -65°C to +150°C
- Outer jacket color : blue

PRODUCT REFERENCES

ET 124963

CONSTRUCTION

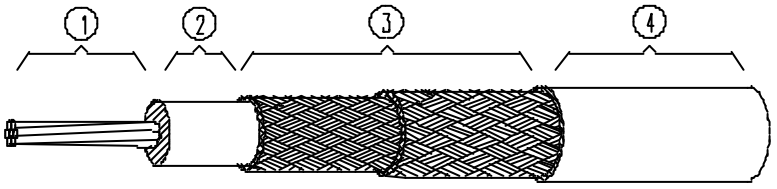
① CONDUCTOR
7 x 0.10 mm
Silver plated copper covered steel
Diameter = 0.30 mm.

② INSULATION
Expansed PTFE
Nom. diameter = 1.35 mm

③ SHIELD
Silver plated copper 7/100
Coverage ≥ 85 % US

④ SHIELD
Silver plated copper 7/100
Coverage ≥ 85 % US
Nom. diameter = 2.00 mm

⑤ JACKET
Laser UV ETFE
OD 2.35 ± 0.05 mm



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Nexans

Physical characteristics

- Fire resistance : No flame propagation (NFC 32070/C1)
- Resistance to fluids : good resistance to aircraft fluids.

Applications

- With similar transmission characteristics to KX 22A / RG 316U,
- This cable has the following advantages :
  - Lower diameter and weight .
  - Better bendability.
  - Better screening effectiveness (Double braid)
  - UV Laser marquability
- Recommended for Aeronautics uses and miniature systems.

Specifications :

- NFC 93 550 and MIL C 17

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AEROSPACE

SP 124964
STUDY 124964

Filotex®

Laser UV miniature triaxial cable

Basic study : 123774 (UV Laser markable Jacket)

Electrical characteristics

- Characteristic impedance : 50 ± 5 Ω
- Linear capacitance at 1 kHz
  - Nominal value : 90 pF/m
  - Maximal value : 100 pF/m
- Attenuation at 10 MHz : 0.09 dB/m
  - 100 MHz : 0.26 dB/m
  - 200 MHz : 0.37 dB/m
  - 500 MHz : 0.65 dB/m
  - 1000 MHz : 1.06 dB/m
  - 1500 MHz : 1.33 dB/m
- Voltage rating : 250 Volts Eff 50 Hz.
- Voltage withstanding: between dielectric and shield: 3000 Volts Eff 50 Hz.
- Jacket spark test : 5000 Volts impulse.
- DC resistance at 20°C: ≤ 144 ohms/Km.
- Insulation resistance :
  between dielectric and shield : ≥1500 Mohms . Km.
  Jacket: ≥1500 Mohms . Km.
- Nominal relative velocity of propagation : 76%

Physical characteristics

- Nominal weight : 27.0 g/m
- Maximum weight : 30.0 g/m.
- Minimum bending radius :
  - Static : 17 mm.
  - Dynamic : 35 mm.
- Strippability : mechanical device or automatic stripper.
- Temperature rating: -65°C to +150°C
- Outer jacket color : green

PRODUCT REFERENCES

ET 124964
ET 124962

CONSTRUCTION

Basic core: study 124962

① CONDUCTOR
19 x 0.098 mm
Silvered alloy
Nom. diameter = 0.48 mm.

② INSULATION
Expansed PTFE
Nom. diameter = 1.35 mm

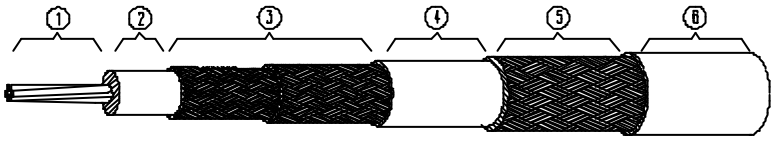
③ SHIELD
Silver plated copper 7/100
Coverage ≥ 62 %

④ SHIELD
Silver plated copper 7/100
Coverage ≥ 62 % US
Nom. diameter = 2.00 mm

⑤ JACKET
UV ETFE
OD 2.35 ± 0.05 mm

⑥ SHIELD
Silver plated copper 10/100
Coverage ≥ 62 %
Nom. diameter = 2.80 mm

⑦ JACKET
Laser UV ETFE markable
OD 3.45 ± 0.10 mm



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Nexans

Physical characteristics

- Fire resistance : No flame propagation (NFC 32070/C1)
  Low smoke emission
- Resistance to fluids : good resistance to aircraft fluids.

Applications

- With similar transmission characteristics to KX 22A / RG 316U,
- This cable has the following advantages :
  - Lower diameter and weight .
  - Better bendability.
  - Better screening effectiveness (Double braid)
  - UV Laser marquability
- Recommended for Aeronautics uses and miniature systems.

Specifications :

- NFC 93 550 and MIL C 17

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AEROSPACE

SP 124965
STUDY 124965

Filotex®

Laser UV miniature triaxial cable

Basic study : 123776 (UV Laser markable Jacket)

Electrical characteristics

- Characteristic impedance : 75 ± 5 Ω
- Linear capacitance at 1 kHz
  Nominal value : 60 pF/m
  Maximal value : 65 pF/m
- Attenuation at 10 MHz : 0.09 dB/m
  100 MHz : 0.26 dB/m
  200 MHz : 0.37 dB/m
  500 MHz : 0.65 dB/m
  1000 MHz : 0.84 dB/m
  1500 MHz : 1.05 dB/m
- Voltage rating : 250 Volts Eff 50 Hz.
- Voltage withstanding: between dielectric and shield: 3000 Volts Eff 50 Hz.
- Jacket spark test : 5000 Volts impulse.
- Insulation resistance :
  between dielectric and shield : ≥1500 Mohms . Km.
  Jacket: ≥1500 Mohms . Km.
- Nominal relative velocity of propagation : 76%

Physical characteristics

- Nominal weight : 26.0 g/m
- Maximum weight : 29.0 g/m.
- Minimum bending radius :
  Static : 17 mm.
  Dynamic : 35 mm.
- Strippability : mechanical device or automatic stripper.
- Temperature rating: -65°C to +150°C
- Outer jacket color : blue

PRODUCT REFERENCES

ET 124965

CONSTRUCTION

① CONDUCTOR
7 x 0.10 mm
Silver plated copper covered steel
Nom. diameter = 0.30 mm.

② INSULATION
Expansed PTFE
Nom. diameter = 1.35 mm

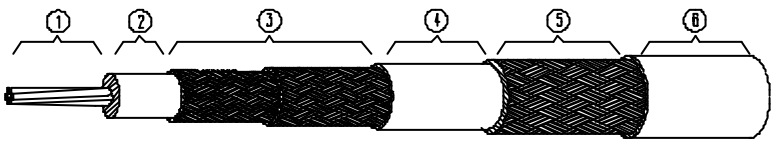
③ SHIELD
Silver plated copper 7/100
Coverage ≥ 62 %

④ SHIELD
Silver plated copper 7/100
Coverage ≥ 62 % US
Nom. diameter = 2.00 mm

⑤ JACKET
FEP
OD 2.35 ± 0.05 mm

⑥ SHIELD
Silver plated copper 10/100
Coverage ≥ 62 %
Nom. diameter = 2.80 mm

⑦ JACKET
Laser UV ETFE markable
OD 3.40 ± 0.10 mm



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Nexans

Physical characteristics

- Fire resistance : No flame propagation (NFC 32070/C1)
  Low smoke emission
- Resistance to fluids : good resistance to aircraft fluids.

Applications

- With similar transmission characteristics to KX 22A / RG 316U,
- This cable has the following advantages :
  - Lower diameter and weight .
  - Better bendability.
  - Better screening effectiveness (Double braid)
  - UV Laser marquability
- Recommended for Aeronautics uses and miniature systems.

Specifications :

- NFC 93 550 and MIL C 17

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AEROSPACE

EN 4604-003 WZ

Filotex®

50 Ohms Coaxial Cable, 200°C Operating Temperature

Applications

- Designed for Signal Transmission Applications in Aeronautic environment.

Main characteristics

- Operating temperature: -65°C to +200°C.(Ambient. + Rise)
- Operating frequency: up to 3 GHz.
- Dimensions: see construction details hereunder
- Static bend radius: 37 mm
- Dynamic bend radius : 100 mm
- Max weight: 30 g/m
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- UV Laser markable Jacket.

Electrical characteristics

- See on next page

Specifications

- Product designed according to : prEN 4604-001, -002 and –003
- Tested according to prEN 3475 and pr EN 3838.

PRODUCT REFERENCES

EN 4604-003

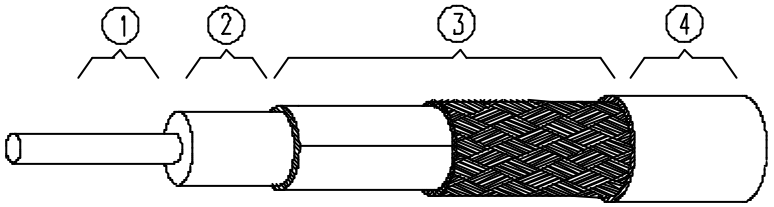
CONSTRUCTION

① CONDUCTOR
Solid Silver plated copper
OD : 0.88 to 0.93

② INSULATION
Low density PTFE
OD : 2.35 ± 0.15 mm

③ SHIELD
Metallized foil
Silver plated copper braid
OD : 3.05 ± 0.15

④ JACKET
White FEP
OD : 3.55 ± 0.15 mm



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Nexans

- Jacket Color identification : Green or Black
- Cable identification : Marking text : EN WN FRF**
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ** = Year of manufacturing (ie. 02=2002)

- Dielectric strength : 4000 Vac
- Corona extinction voltage : 1700 Vac
- Insulation resistance : ≥ 1000 Mohm.km
- Characteristic impedance : 50 ± 2 Ω
- Linear capacitance : 88 pF/m max.
- Velocity of propagation : 225 000 km/s min. (75% relative)
- Transfer impedance : 30 mohms/m, up to 3GHz
- Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	1100	11
200	660	19
400	450	28
1000	250	47
3000	150	90

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AEROSPACE

EN 4604-004 WS

Filotex®

50 Ohms Coaxial Cable, 200°C Operating Temperature

Applications

- Designed for high frequency signal transmission in aircraft radio communication systems.

Main characteristics

- Operating temperature: -55°C to +200°C.(Ambient. + Rise)
- Operating frequency: up to 3 GHz.
- Dimensions: see construction details hereunder
- Static bend radius: 15 mm
- Dynamic bend radius : 28 mm
- Max weight: 20 g/m
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant
- Especially designed for high EMC performances.

Electrical characteristics

- See on next page

Specifications

- Product designed according to : prEN 4604-001, -002 and –004
- Tested according to prEN 3475.

PRODUCT REFERENCES

EN 4604-004

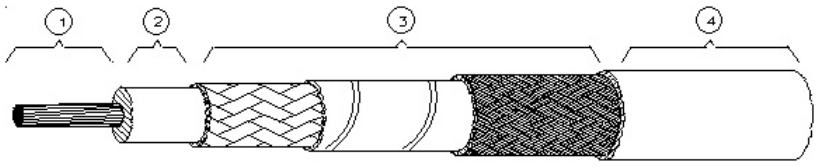
CONSTRUCTION

① CONDUCTOR
7 x 0.16 mm strands
OD : 0.51

② INSULATION
Extruded PTFE
OD : 1.50

③ SHIELD
1st layer
Silver plated copper braid
Strand diam : 0.085 mm
2nd layer
High permeability metal tape
3rd layer
Silver plated copper braid
Strand diam : 0.085 mm
OD : 2.31 ± 0.14 mm

④ JACKET
2 Polyimide tapes + FEP coating
OD : 2.49 ± 0.16 mm
Color : White



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Nexans

- Jacket Color identification : Green
- Cable identification : Marking text : EN WN FRF**
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ** = Year of manufacturing (ie. 02=2002)

- Dielectric strength : 1500 Vac
- Operating voltage : 1300 Vac
- Insulation resistance : ≥ 1000 Mohm.km
- Characteristic impedance : 50 ± 5 Ω
- Linear capacitance : (95 ±10) pF/m
- Velocity of propagation : 207 000 km/s nominal (69% relative)
- Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	600	26
100	400	36
200	270	55
400	180	78
1000	120	140
3000	75	195

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AEROSPACE

EN 4604-006 WM

Filotex®

50 Ohms Coaxial Cable, 200°C Operating Temperature

Applications

- Designed for high frequency signal transmission in aircraft electrical systems

Main characteristics

- Operating temperature: -55°C to +200°C.(Ambient. + Rise)
- Operating frequency: up to 5 GHz.
- Dimensions: see construction details hereunder
- Static bend radius: 25 mm
- Dynamic bend radius : 70 mm
- Max weight: 35 g/m
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant.

Electrical characteristics

- See on next page

Specifications

- Product designed according to : prEN 4604-001, -002 and –006
- Tested according to prEN 3475.

PRODUCT REFERENCES

EN 4604-006

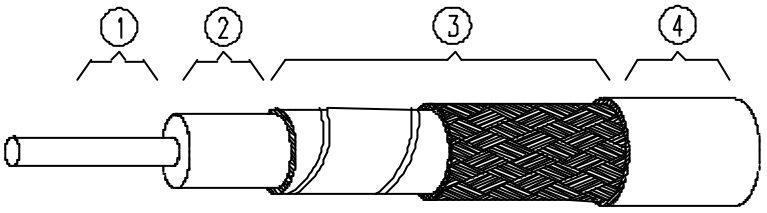
CONSTRUCTION

① CONDUCTOR
Solid silver plated copper
OD : 1.02 ± 0.03 mm

② INSULATION
Expanded PTFE
OD : 2.84 ± 0.10 mm

③ SHIELD
1st layer
Silver plated copper tape
2nd layer
Silver plated copper braid
Strand diam. : 0.10 mm
OD : 3.50 ± 0.20 mm

④ JACKET
Violet FEP
OD : 3.85 ± 0.15 mm



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Nexans

- Jacket Color identification : Black
- Cable identification : Marking text : EN WN FRF**
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ** = Year of manufacturing (ie. 02=2002)

- Dielectric strength : 2500 Vac
- Operating voltage : 750 Vac
- Insulation resistance : ≥ 1000 Mohm.km
- Characteristic impedance : 50 ± 3 Ω
- Linear capacitance : 82 pF/m maximum
- Velocity of propagation : 243 000 km/s nominal (81% relative)
- Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	2800	8
100	2000	11.5
400	1100	20.5
1000	600	40
5000	300	85

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AEROSPACE

EN 4604-007 WN

Filotex®

50 Ohms Coaxial Cable, 200°C Operating Temperature

Applications

- Designed for high frequency signal transmission in aircraft electrical systems

Main characteristics

- Operating temperature: -55°C to +200°C.(Ambient. + Rise)
- Operating frequency: up to 5 GHz.
- Dimensions: see construction details hereunder
- Static bend radius: 80 mm
- Dynamic bend radius : 120 mm
- Max weight: 145 g/m
- Very Good Resistance to Aircraft Fluids
- Mould and Fungus Resistant.

Electrical characteristics

- See on next page

Specifications

- Product designed according to : prEN 4604-001, -002 and –007
- Tested according to prEN 3475.

PRODUCT REFERENCES

EN 4604-007

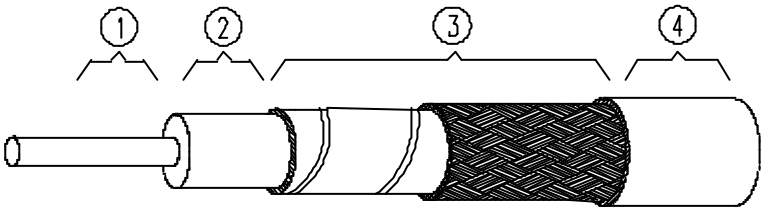
CONSTRUCTION

① CONDUCTOR
Solid silver plated copper
OD : 2.30 ± 0.03 mm

② INSULATION
Expanded PTFE
OD : 6.20 ± 0.10 mm

③ SHIELD
1st layer
Silver plated copper tape
2nd layer
Silver plated copper braid
Strand diam : 0.20 mm
OD : 7.5 ± 0.20 mm

④ JACKET
Violet FEP
OD : 8.00 ± 0.20mm



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Fax : + 33 1 69 42 05 70

Nexans

- Jacket Color identification : Black
- Cable identification : Marking text : EN WN FRF**
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ** = Year of manufacturing (ie. 02=2002)

- Dielectric strength : 3000 Vac
- Operating voltage : 1000 Vac
- Insulation resistance : ≥ 1000 Mohm.km
- Characteristic impedance : 50 ± 3 Ω
- Linear capacitance : 82 pF/m maximum
- Velocity of propagation : 243 000 km/s nominal (81% relative)
- Maximal attenuation and rated power :

Frequency (MHz)	Max Rated Power (W)	Attenuation at 20°C (dB/100m)
50	8000	3.5
100	5000	5.5
400	3000	10
1000	2000	15
5000	800	35

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AEROSPACE

PAN 6422

Filotex®

PTFE Coaxial Laser Markable Cables

PRODUCT REFERENCES

PAN 6422 ++

Main data

- Voltage Rating : see table on this data sheet.
- Peak Temperature : 200°C.
- Operating Frequency : up to 1 Ghz.
- Bend Radius : Minimum 6 times cable O.D.
- Dimensions and high frequency characteristics : see table on this data sheet.
- Very good resistance to solvents.
- Very good resistance to soldering operations.

CONSTRUCTION

① CONDUCTOR
Stranded conductors :
See table on this data sheet.

② INSULATION
Extruded PTFE

③ SHIELD
Silver plated copper single or double braid

④ JACKET
Polyimide Tape
UV Laser PTFE Tape(s)
(Munsell colour limits 5YR 6/4 to 5YR 7/4)

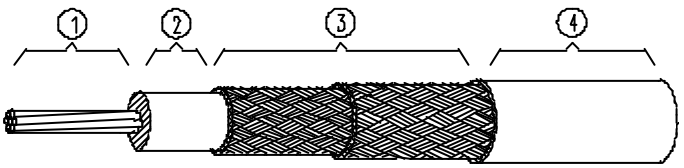
Applications

- For general purpose coaxial cables

Specifications

- PAN6422
- MIL-C-17
- BS2316

PAN 6422 SINGLE OR DOUBLE BRAID



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Nexans

DIMENSIONS AND WEIGHTS (METRIC UNITS)

FILOTEX PART NUMBER	MIL-C-17 PART NUMBER	CONDUCTOR			INSULATION	SHIELD		FINISHED CABLE	
		Composition (Nbr x Dia. of strand in mm)	Nature	Nom. Dia. (mm)	Nom. Diameter (mm)	Number	Nature	Nom. Diameter (mm)	Nom. Weight (Kg/Km)
PAN 6422 XQ	M17/172-00001 (RG316/U)	7 x 0.1702	SPCCS	0.51	1.52	1	SPC	2.22	14
PAN 6422 XR	M17/175-00001 (RG400/U)	19 x 0.195	SPC	0.96	2.95	2	SPC	4.28	58
PAN 6422 XS	M17/86-00001 (RG225/U)	7 x 0.792	SPC	2.38	7.25	2	SPC	9.15	223
PAN 6422 XT	M17/169-00001 (RG178/U)	7 x 0.1016	SPCCS	0.30	0.82	1	SPC	1.54	7.2
PAN 6422 XU	URM107	7 x 0.82	SPC	2.46	7.25	1	SPC	8.66	180
PAN 6422 XW	URM108	1 x 1.0	SPC	1.0	2.95	1	SPC	3.87	46
PAN 6422 XX	M17/110-RG302 (RG302/U)	1 x 0.635	SPCCS	0.635	3.71	1	SPC	4.59	49
PAN 6422 XY	M17/94-RG179 (RG179/U)	7 x 0.1016	SPCCS	0.30	1.60	1	SPC	2.30	14
PAN 6422 XZ	M17/95-RG180 (RG180/U)	7 x 0.1016	SPCCS	0.30	2.59	1	SPC	3.29	26

SPCCS : Silver plated Copper covered Steel

ELECTRICAL CHARACTERISTICS

FILOTEX PART NUMBER	MIL-C-17 PART NUMBER	Nominal Impedance (Ω)	Attenuation dB/100m at (MHz)				VOLTS RMS (Max)
			10	100	400	1000	
PAN 6422 XQ	M17/172-00001 (RG316/U)	50	19.7	37.4	65.6	101.5	900
PAN 6422 XR	M17/175-00001 (RG400/U)	50	3.96	14.4	31.6	53.2	1400
PAN 6422 XS	M17/86-00001 (RG225/U)	50	1.97	6.9	14.8	25.0	3700
PAN 6422 XT	M17/169-00001 (RG178/U)	50	18.45	46.0	92.0	151.0	750
PAN 6422 XU	URM107	50	1.7	6.3	13.6	23.4	3500
PAN 6422 XW	URM108	50	3.6	13.4	29.1	46.3	1400
PAN 6422 XX	M17/110-RG302 (RG302/U)	75	2.96	10.8	26.3	42.6	1700
PAN 6422 XY	M17/94-RG179 (RG179/U)	75	17.45	32.9	52.5	79.0	900
PAN 6422 XZ	M17/95-RG180 (RG180/U)	95	3.96	14.4	31.6	53.2	1100

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AEROSPACE

ASNE0293 XF

Filotex®

50 Ohms Coaxial Cable

Applications

- Avionic interconnexion.

PRODUCT REFERENCES

ASNE0293 XF

Main data

- Voltage Rating: 600 Volts RMS
- Operating Temperature: -65°C / +200°C
- Mean Attenuation:

10 MHz	4.3 dB/100m
200 MHz	19 dB/100m
400 MHz	28 dB/100m
3000 MHz	95 dB/100m
10000 MHz	210 dB/100m

- Impedance: 50 ± 2 Ω
- Nominal capacitance : 95 pF/m
- Minimum Bend radius : 50 mm
- Good resistance to aircraft fluids

Identification

- Color of Jacket : Brown

Green marking of the external sheath : "XF FR F **"

FR = Country of Origin (FR = France)

F = Manufacturer (F = Filotex®)

** = Year of Manufacturing (ie. 02 = 2002)

Specification : ASNE0293

CONSTRUCTION

① CORE
Stranded conductor, 19 x 0.20
Silver Plated Copper

② INSULATION
Extruded PTFE
Nom. Diam. 2.95 mm

③ SCREEN
Dual Silver plated copper braid.
Strands diam. 0.13 mm
Overall nom. Diam. 4.06 mm

④ FEP JACKET

Maximum Diameter = 5.08 mm
Nominal Weight = 67 g/m

① ② ③ ④

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AEROSPACE

FILOTEX® TYPE : NSA 935344 XE

Filotex®

Application

High frequency interconnections.

PRODUCT REFERENCES

NSA 935344 XE

Electrical Characteristics

- ❒ Impedance at 200 Mhz : 50 ± 2 Ω
- ❒ Nominal capacitance : 95 pF/m
- ❒ Nominal attenuation at 900 Mhz : 0.8 dB/m
- ❒ Maximum Operating frequency : 1.8 Ghz
- ❒ Voltage rating : 900 Volts RMS.
- ❒ Maximum rating temperature : 250°C (ambient + rise)

CONSTRUCTION

① CONDUCTOR
7 x 0.17mm silver plated copper covered steel.
Diameter 0.51 mm

② INSULATION
Extruded PTFE
Diameter 1.52 ± 0.07 mm

③ SHIELD
single braid of silver plated copper
Stand diameter 0.10 mm

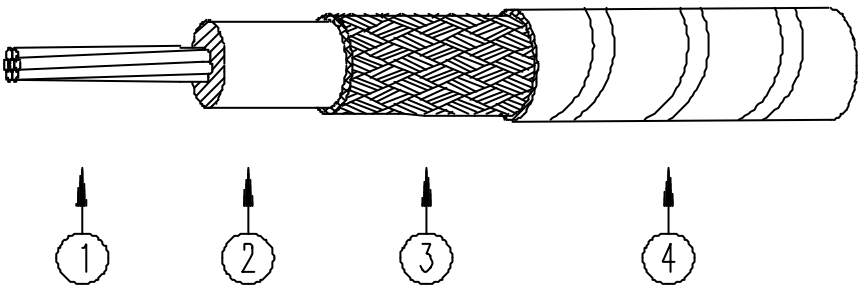
④ JACKET
White PTFE tapes
Diameter 2.70 ± 0.10 mm

Physical Characteristics

- ❑ Nominal weight : 18 g/m
- ❑ Marking : XE ** FR F

** Year of manufacturing

Type : NSA 935344 - XE



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Part 5

Data bus and high speed transmission cables

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ELECTRONIC

ABS 0972 KB 24

Filotex®

Shielded Quad
24 AWG 100 OHMS

Applications

- High speed data transmission – Ethernet networks – 100 Mbit/s and in-flight entertainment application.

Temperature rating

- Operating temperature : - 55°C up to +125°C.

Identification

- Inkjet marking pitch length ≈ 300 mm.
  Pitch length between the two text marking ≈ 150 mm
  AB KB 24 FR F **

PRODUCT REFERENCES

ET 2PC236

CONSTRUCTION

① 19 x 0.13 mm Silver Copper stranded 24 AWG
FEP Insulated
Ø = 1.40 mm
Color : Blue-Red-Yellow-Green

② Natural FEP Filler

③ Wrapping Tape

④ 0.10 mm Silver Copper Braid

⑤ Clear Blue FEP Jacket for UV laser marking
Ø = 4.40 +/- 0.20 mm

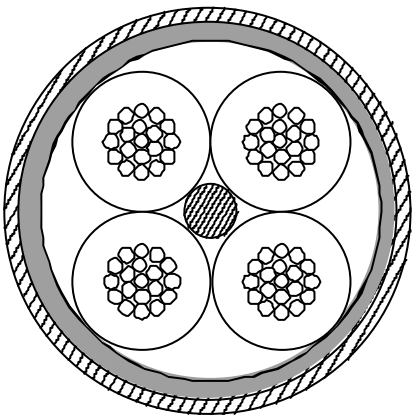
Weight : 40,28 g/m nominal

Electrical characteristics :

- Loop resistance : 19.2 Ohms/100 m at 20°C (Max).
- Insulation resistance : 150 M.ohms / Km at 20°C.
- Impedance : 100 ± 15 Ohms from 1 to 100 MHz
- Velocity of propagation : 69 %
- Next > 65 -15 x log (F) dB from 1 to 100 MHz
- Attenuation Nominal Values :

2.1	dB/100 m at 1	MHz
4.1	dB/100 m at 4	MHz
6.5	dB/100 m at 10	MHz
8.2	dB/100 m at 16	MHz
9.3	dB/100 m at 20	MHz
11.7	dB/100 m at 31.25	MHz
17	dB/100 m at 62.5	MHz
22	dB/100 m at 100	MHz

SPECIFICATION ABS 0972



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AEROSPACE

SP 124960
STUDY 124960

Filotex®

Bus lines for multiplexed transmission

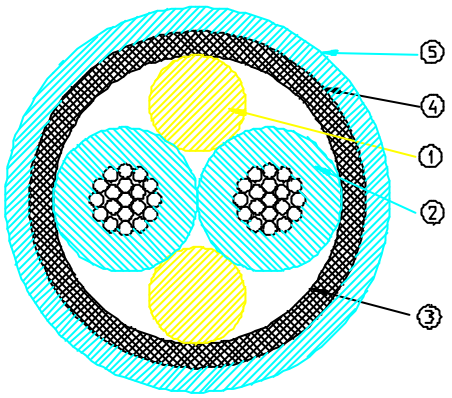
Electrical characteristics

- Characteristic impedance at 1 MHz : 77 ± 7 Ω
- Nominal mutual capacitance : 65 pF/m
- Nominal capacitance between 1 core and shield : 110 pF/m
- Nominal capacitance between cores and shield : 180 pF/m
- Nominal attenuation at 1 MHz : 3.5 dB/100 m
- Linear resistance: ≤ 146 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstanding:
  between conductors: 1000 volts
  between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating : 250 Volts
- Maximum transfer impedance (mΩ/m):

DC current :	50
1MHz	50
10MHz	50
30 MHz	100

Physical characteristics

- Nominal weight : 14.5 g/m
- Maximum weight : 19 g/m.
- Minimum static bending radius : 15 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +150°C
- Outer jacket color : white
- Color of cores: white, blue



PRODUCT REFERENCES

ET 124960

CONSTRUCTION

① 2 FILLERS
PTFE

② 2 CORES
1 core : AWG 26
Cross section: 0.15 mm²
19 x 0.10 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 0.80 ± 0.05 mm

③ LAY UP
Nominal diameter: 1.60 mm

④ SHIELD
Silver plated copper 10/100
Diameter < 2.00 mm

⑤ JACKET
UV laser markable ETFE
OD 2.50 ± 0.10 mm

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Nexans

Marking

- "FILOTEX FRANCE ET 124960-**""
  (**) = Year of manufacturing
- Red marking for the main line
  (Nexans reference: ETUDE 124960-01)
- Blue marking for the branch line
  (Nexans reference: ETUDE 124960-02)

Technical requirements and control conditions: according to pr EN 3375

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AEROSPACE

SP 124961
STUDY 124961

Filotex®

Bus lines for multiplexed transmission

Electrical characteristics

- Characteristic impedance at 1 MHz : 77 ± 7 Ω
- Nominal mutual capacitance : 65 pF/m
- Nominal capacitance between 1 core and shield : 110 pF/m
- Nominal capacitance between cores and shield : 180 pF/m
- Nominal attenuation at 1 MHz : 2.7 dB/100 m
- Linear resistance: ≤ 109 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstanding:
  between conductors: 1000 volts
  between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating : 250 Volts
- Maximum transfer impedance (Ω/m):

DC current :	$15 . 10^{-3}$
1MHz	$5 . 10^{-3}$
10MHz	$5 . 10^{-3}$
30 MHz	$10 . 10^{-3}$

Physical characteristics

- Nominal weight : 28 g/m
- Maximum weight : 37 g/m.
- Minimum static bending radius : 20 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +150°C
- Outer jacket color : white
- Color of cores: white, blue

PRODUCT REFERENCES

ET 124961

CONSTRUCTION

① 2 FILLERS
PTFE

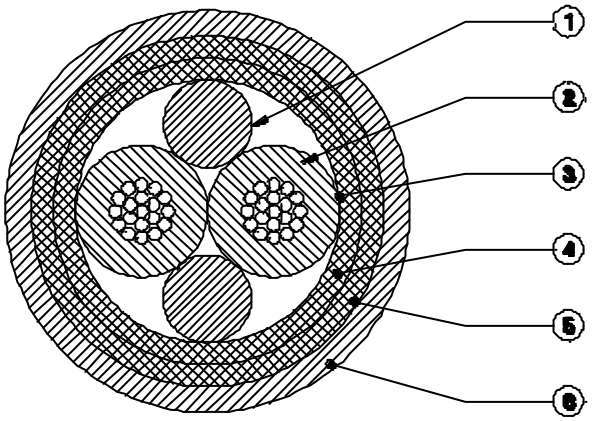
② 2 CORES
1 core : AWG 24
Cross section: 0.21 mm²
19 x 0.12 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 1.05 ± 0.10 mm

③ LAY UP
Nominal diameter: 2.10 mm

④ SHIELD
Silver plated copper 10/100

⑤ SHIELD
Silver plated copper 10/100
Diameter < 3.50 mm

⑥ JACKET
UV laser markable ETFE
OD 3.65 ± 0.25 mm



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Nexans

Marking

- "FILOTEX FRANCE ET 124961-**""
  (**) = Year of manufacturing
- Red marking for the main line
  (EN 3375 – 004 C01, Nexans reference: ETUDE 124961-01)
- Blue marking for the branch line
  (EN 3375 – 004 C02, Nexans reference: ETUDE 124961-02)

Technical requirements and control conditions: according to pr EN 3375

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AEROSPACE

SP 96770
ASNE 0479 - WJ

Filotex®

Bus lines for multiplexed transmission
Use for Bus System MIL STD 1553

Electrical characteristics
- Characteristic impedance at 1 MHz : 77 ± 7 Ω
- Nominal mutual capacitance : 65 pF/m
- Nominal capacitance between 1 core and shield : 110 pF/m
- Nominal capacitance between cores and shield : 180 pF/m
- Nominal attenuation at 1 MHz : 2.7 dB/100 m
- Linear resistance: ≤ 109 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstanding:
  between conductors: 1000 volts
  between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating : 250 Volts
- Maximum transfer impedance (Ω/m):

DC current	$15 . 10^{-3}$
1MHz	$5 . 10^{-3}$
10MHz	$5 . 10^{-3}$
30 MHz	$10 . 10^{-3}$

Physical characteristics
- Nominal weight : 28 g/m
- Maximum weight : 37 g/m.
- Minimum static bending radius : 20 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +150°C
- Outer jacket color : white
- Color of cores: white, blue

PRODUCT REFERENCES

ET 96770
ET 96770-01
ET 96770-02

CONSTRUCTION

① 2 FILLERS
PTFE

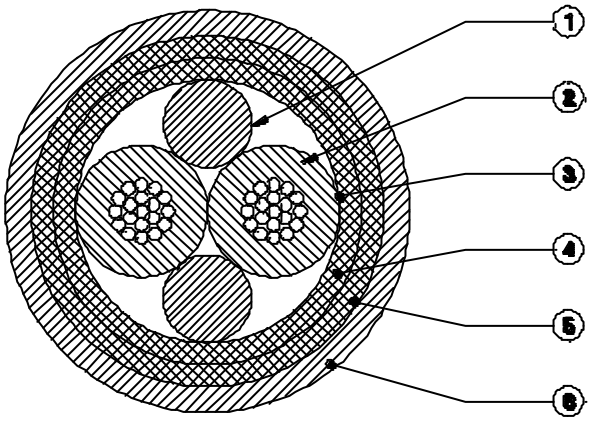
② 2 CORES
1 core : AWG 24
Cross section: 0.21 mm²
19 x 0.12 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 1.05 ± 0.10 mm

③ LAY UP
Nominal diameter: 2.10 mm

④ SHIELD
Tin plated copper 10/100

⑤ SHIELD
Tin plated copper 10/100
Diameter < 3.50 mm

⑥ JACKET
FEP Jacket
OD 3.65 ± 0.25 mm



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Nexans

Marking

- "FILOTEX FRANCE ET 96770-**""
  (**) = Year of manufacturing
- Red marking for the main line
  (EN 3375 – 004 B01, Nexans reference: ETUDE 96770-01)
- Blue marking for the branch line
  (EN 3375 – 004 B02, Nexans reference: ETUDE 96770-02)

Technical requirements and control conditions: according to pr EN 3375

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AEROSPACE

STUDY 65529
PAN 6421 ZA 002

Filotex®

CABLE, SPECIAL ELECTRIC (MIL-STD-1553B DATA BUS)

Physical Characteristics

- Operating Temperature: -65°C to +150°C
- Maximal weight : 29 Kg./Km.
- Good resistance to aircraft fluids

Electrical Characteristics

- Voltage Rating: 600 Volts RMS.

Characteristics Impedance

- 77Ω ± 3Ω

Mutual Capacitance

- 98.4 pF/m

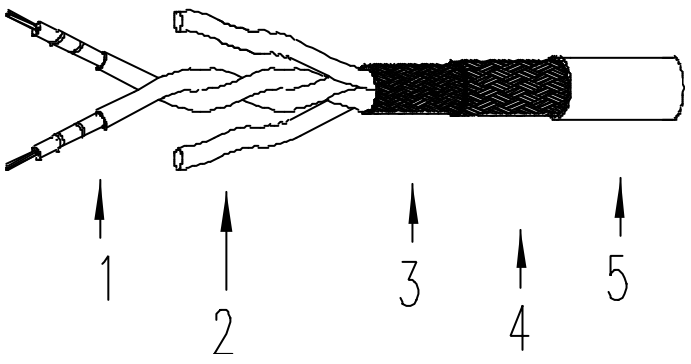
Attenuation

- 4.92 dB/100m. Max.

Identification

- Color of cores : Red, Blue
- Color of Jacket : Blue
- Black Marking of the external sheath :
- "PAN 6421 ZA 002 FR F **"
- ** = Year of manufacturing

Specification : PANAVIA 75.6421
SP-P-99301-00-P



PRODUCT REFERENCES

PAN 6421 ZA 002
ET 65529

CONSTRUCTION

① CORES :
Stranded conductor :
19 x 0.118 Silver plated copper Alloy
Insulation Polyimide/FEP Tape plus dispersion

Diameter = 1.22 mm
Maxi = 1.26 mm

② P.T.F.E. fillers

③ Inner screen 0.08 mm Silver plated copper (Braid)

④ Outer screen 0.08 mm Silver plated copper (Braid)

⑤ Extruded FEP Jacket
0.20 mm Minimum Wall Thickness

Diameter min.= 3.15 mm
Diameter max.= 3.80 mm
Max. Weight = 29.0 g/m

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AEROSPACE

ASNE0259 HE 24

Filotex®

BUS CABLE
AWG 24 - Single braid - Polyimide Jacket

PRODUCT REFERENCES

ASNE0259 HE 24

Characteristics

- ❒ Voltage Rating : 600 Volts RMS
- ❒ Operating Temperature : -55°C to +150°C
- ❒ Good Resistance to aircraft fluids.
- ❒ Non flammable.
- ❒ Nominal weight : 27 g/m

Characteristics impedance

- ❒ 125 Ω ±10%

CONSTRUCTION

① CORES
2 twisted cores AWG 24:
Stranded conductor :
19 x 0.12 mm Silver plated high strength copper alloy
Extruded PTFE
∅ 1.97 ± 0.03 mm

② SHIELD
0.10 mm Nickel plated copper braid
Covering ≥ 62%

③ JACKET
Polyimide tape(s)

Maxi. Diameter = 4.50 mm

- ❒ Attenuation at 500 KHz : 2.5 dB/100m
- ❒ Attenuation at 1 MHz : 3.1 dB/100m
- ❒ Mutual capacitance : 40 pF/m

Electrical characteristics

- ❒ Voltage withstanding
  between conductors : 1500 volts
  between conductors and shield : 1500 volts
- ❒ Maximum linear resistance of conductor at 20°C : 97.2 Ω/Km

Identification : 1 core white and 1 core brown
Natural jacket

Specification : ASNE0259

① ② ③

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AEROSPACE

ASNE0849 HJ 26

Filotex®

Twinaxial Cable High immunity

Applications

- General Electronic Wiring.

Main data

- Voltage Rating: 600 Volts RMS
- Low Operating Temperature: -65°C
- High Operating Temperature: +200°C
- Transfer Impedance:

DC	28.10^{-3} Ω/m
10 kHz	$8,7.10^{-3}$ Ω/m
100 kHz	$0,85.10^{-3}$ Ω/m
2 MHz	$0,8.10^{-5}$ Ω/m

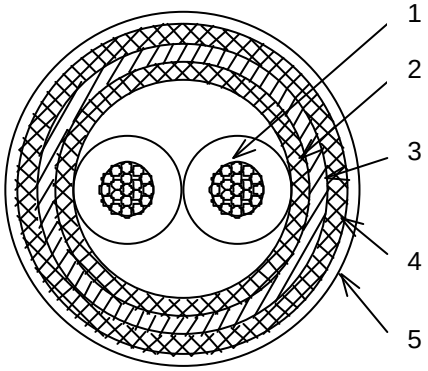
- Impedance max. : 75 Ω
- Minimum Bend radius : 30 mm
- Good resistance to aircraft fluids

Identification

- Color of cores : Light Blue, Red
- Color of Jacket : White

Black marking of the external sheath : "HJ 26 FR F **"
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
** = Year of Manufacturing (ie. 02 = 2002)

Specification : ASNE0849



PRODUCT REFERENCES

ASNE0849 HJ 26

CONSTRUCTION

① 2 CORES
Stranded conductors :
19 x 0.100 Nickel Plated
High Strength Copper Alloy
Insualtion:
Polyimide tape(s)
PTFE Topcoat
Dia. max. = 0.84 mm

SCREEN
② 0.08 mm Nickel plated copper braid.
③ High immunity Tapes
Nominal dia. = 2.06 mm
④ 0.10 mm Nickel plated copper braid.
Nominal dia. = 2.50 mm

JACKET
⑤ FEP
Maximum Diameter = 3 mm
Maximum Weight = 22 g/m

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AEROSPACE

SP 554
STUDY 61333

Filotex®

Bus lines for multiplexed transmission

Electrical characteristics

- Characteristic impedance : 75 ± 5 Ω
- Nominal mutual capacitance : 65 ± 5 pF/m
- Capacitance unbalance: ≤ 5%
- Nominal attenuation at 1 MHz : 2.6 dB/100 m
  at 10 MHz : 10 dB/100 m
- Linear resistance: ≤ 50.2 ohms/Km
- Insulation resistance under 500 volts: > 5000 Mohms . Km.
- Voltage withstanding:
  between conductors: 2000 volts RMS
  between conductors and shield: 2000 volts RMS
- Jacket spark test: 500 Volts
- Voltage rating: 600 Volts
- Transfer impedance (Ω/m):
  at 1 MHz: $2.5 . 10^{-5}$

Physical characteristics

- Nominal weight : 55 g/m
- Maximum weight : 55.4 g/m.
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +200°C
- Outer jacket color : white
- Color of cores: white, blue

These cables are approved by the Defense Ministry under letters :
N°8981/STTE/CTG (10-09-86)
Registered at the B.N.Aé : N° 6415 401

PRODUCT REFERENCES

ET 61333

CONSTRUCTION

① 2 FILLERS
PTFE

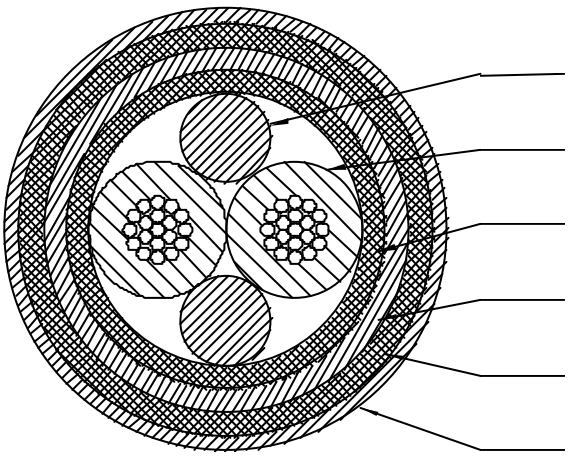
② 2 CORES
1 core : AWG 22
Cross section: 0.38 mm²
19 x 0.16 Silver plated copper
Insulation : extruded PTFE
Diameter = 1.50 ± 0.03 mm
Lay up:
Nominal diameter: 3.00 mm

③ SHIELD
Silver plated copper 12/100

④ TAPE
High permeability alloy

⑤ SHIELD
Silver plated copper 12/100
Nominal diameter: 4.06 mm

⑥ JACKET
Polyimide PTFE
OD = 4.55 ± 0.25 mm



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AEROSPACE

Filotex®

SP 69899
ASNE 0811 - WY

Bus lines for multiplexed transmission
Use for Bus system MIL STD 1553

Electrical characteristics
- Characteristic impedance at 1 MHz : 77 ± 7 Ω
- Nominal mutual capacitance : 65 pF/m
- Nominal capacitance between 1 core and shield : 110 pF/m
- Nominal capacitance between cores and shield : 180 pF/m
- Nominal attenuation at 1 MHz : 3.5 dB/100 m
- Linear resistance: ≤ 146 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstanding:
  between conductors: 1000 volts
  between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating : 250 Volts
- Maximum transfer impedance (mΩ/m):

DC current :	50 10^{-3}
1MHz	50 10^{-3}
10MHz	50 10^{-3}
30 MHz	100 10^{-3}

PRODUCT REFERENCES

ASNE 0811 WY
ET 69899-01
ET 69899-02

Physical characteristics
- Nominal weight : 14.5 g/m
- Maximum weight : 19 g/m.
- Minimum static bending radius : 15 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +200°C
- Outer jacket color : white
- Color of cores: white, blue

Specification : ASNE 0811

CONSTRUCTION

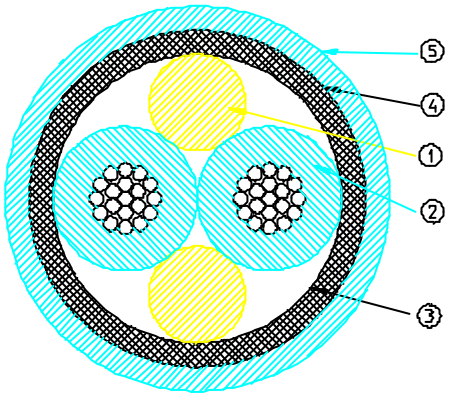
① 2 FILLERS
PTFE

② 2 CORES
1 core : AWG 26
Cross section: 0.15 mm²
19 x 0.10 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 0.80 ± 0.05 mm

③ LAY UP
Nominal diameter: 1.60 mm

④ SHIELD
Silver plated copper 10/100
Diameter < 2.00 mm

⑤ JACKET
FEP
OD 2.50 ± 0.10 mm



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Nexans

Marking

- "FILOTEX FRANCE ET 69899-**""
  (**) = Year of manufacturing
- Red marking for the main line
  (Nexans reference: ETUDE 69899-01)
- Blue marking for the branch line
  (Nexans reference: ETUDE 69899-02)

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AEROSPACE

ABS 0386 WF
STUDY 96897

Filotex®

Applications

- Data bus cable.

PRODUCT REFERENCES

ABS 0386 WF
ET 96897

Main data

- Voltage rating: 1600 vrms.
- Operating temperature: -55°C/+200°C
- Minimum bend radius.: 25 mm.
- Characteristic impedance: 100 ± 10 Ohms at 5 MHz.
- Attenuation at 1 MHz: 0.03 dB/m.
  at 5 MHz: 0.06 dB/m.
  at 10 Mhz: 0.12 dB/m
- Maximum capacitance: 60 pF/m
- Dimensions and weight: see table on reverse of this data sheet.

CONSTRUCTION

① CORES
2 Cores

19 x 0.12 mm Nickel coated copper.
PTFE insulation.

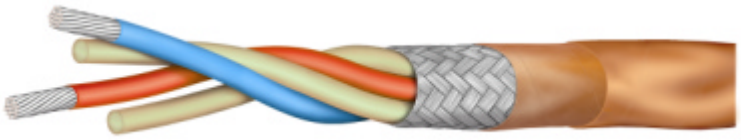
② SCREEN
Nickel coated copper braid (∅ 0.08 mm)

JACKET
③ Polyimide tapes

④ Fiber glass fillers.

Identification

- 1 core : Light blue with green marking 'WF 24 FR F **'
- 1 core : Red with white marking 'WF 24 FR F **'
- Amber color jacket : (Marking tape under jacket)
- Marking : 'WF 24 FR F **' + dash. (**) = Year code.



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Nexans

DIMENSIONS AND WEIGHT

Reference	US	Conductor				Insulation		Braid		Finish cable		
		Composition	Diameter		Ohmic resistance at 20°C	Diameter				Overall diameter		Weight
FILOTEX	AWG	(N x mm)	(mm)		(Ohms/Km)	(mm)		Ø str and	Ø Nom.	(mm)		(Kg/Km)
			Nom.	Max.	Max.	Nom.	Max.	(mm)	(mm)	Nom.	Max.	Max.
Study. 96897	24	19 x 0.12	0.59		117.5	1.40	1.50	0.08	3.12	3.30	3.50	23.4

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AEROSPACE

ASNE0290 XM 24

Filotex®

BUS PAIR , High temperature

Applications

- General Electronic Wiring.
- Communication Data Bus, compatible RS 422

Main data

- Voltage Rating: 600 Volts RMS
- Low Operating Temperature: -55°C
- High Operating Temperature: +200°C
- Minimum Bend radius : 30 mm
- Good resistance to aircraft fluids
- Maximum Weight = 15 g/m

Electrical data

- Impedance : (78 ± 7) Ω @ 200 MHz
- Lineic capacitance (nom) : 64 pF/m
- Linear attenation (max) :
  - 0.035 dB/m @ 1 MHz
  - 0.15 dB/m @ 10 MHz

Identification

- Color of cores : Light Blue, Red
- Color of Jacket : Natural

  Marking : "XM 24 *-F"

  FR = Country of Origin (FR = France)

  F = Manufacturer (F = Filotex®)

  * = Year of Manufacturing Code (ie. 02 = 2002)

Specification : ASNE0290

PRODUCT REFERENCES

ASNE0290 XM 24

CONSTRUCTION

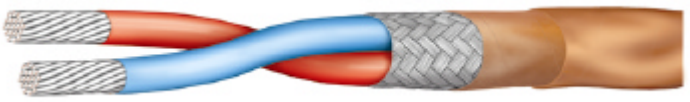
① 2 CORES
Stranded conductors :
19 x 0.12 Nickel Plated

High Strength Copper

Alloy
Insulation:
Etruded coloured PTFE
Max Dia. = 1.33 mm

SCREEN
② 0.08 mm Nickel plated copper braid.Kr = 0.65 min.

JACKET
③ Polyimide Tape
Overlap = 15% min.
④ Polyimide Tape
Overlap = 53% min.
Maximum Diameter = 3.10 mm



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AEROSPACE

SP 69794
EN 3375-004 C - WJ

Filotex®

Bus lines for multiplexed transmission

Use for Bus System MIL STD 1553

Electrical characteristics

- Characteristic impedance at 1 MHz : 77 ± 7 Ω
- Nominal mutual capacitance : 65 pF/m
- Nominal capacitance between 1 core and shield : 110 pF/m
- Nominal capacitance between cores and shield : 180 pF/m
- Nominal attenuation at 1 MHz : 2.7 dB/100 m
- Linear resistance: ≤ 109 ohms/Km.
- Insulation resistance: ≥1500 Mohms . Km.
- Voltage withstanding:
  between conductors: 1000 volts
  between conductors and shield: 1000 volts
- Jacket spark test: 1000 Volts
- Voltage rating : 250 Volts
- Maximum transfer impedance (Ω/m):

DC current	$15 . 10^{-3}$
1MHz	$5 . 10^{-3}$
10MHz	$5 . 10^{-3}$
30 MHz	$10 . 10^{-3}$

Physical characteristics

- Nominal weight : 28 g/m
- Maximum weight : 37 g/m.
- Minimum static bending radius : 20 mm
- Good resistance to aircraft fluids
- Temperature rating: -65°C to +200°C
- Outer jacket color : white
- Color of cores: white, blue

PRODUCT REFERENCES

ET 69794
ET 69794-01
ET 69794-02

CONSTRUCTION

① 2 FILLERS
PTFE

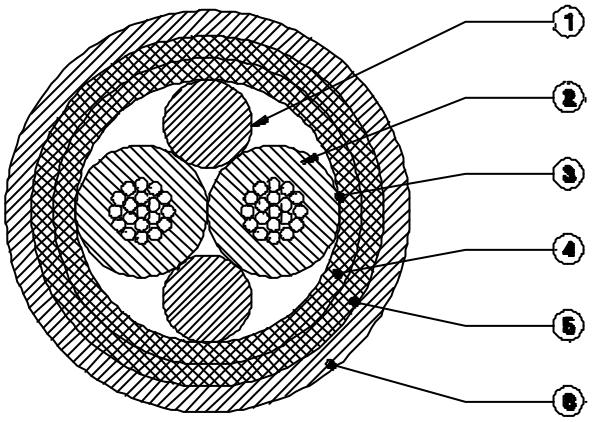
② 2 CORES
1 core : AWG 24
Cross section: 0.21 mm²
19 x 0.12 Silver plated copper alloy (EN2083)
Insulation : extruded PTFE
Diameter = 1.05 ± 0.10 mm

③ LAY UP
Nominal diameter: 2.10 mm

④ SHIELD
Silver plated copper 10/100

⑤ SHIELD
Silver plated copper 10/100
Diameter < 3.50 mm

⑥ JACKET
FEP Jacket
OD 3.65 ± 0.25 mm



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Marking

- "FILOTEX FRANCE ET 69794-**""
  (**) = Year of manufacturing
- Red marking for the main line
  (EN 3375 – 004 C01, Nexans reference: ETUDE 69794-01)
- Blue marking for the branch line
  (EN 3375 – 004 C02, Nexans reference: ETUDE 69794-02)

Technical requirements and control conditions: according to pr EN 3375

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AEROSPACE

EN 4608-005B 002

Filotex®

Fireproof Cable
Two-cores Twisted Screened and Jacketed
Gauge 24 for data transmission

Applications

- Use in the onboard electrical systems of aircraft.

Electrical Characteristics

- Temperature rating : -65°C /+260°C (Ambiant. + Rise.)
- Voltage Rating : 600 Volts rms
- Operating frequency : up to 125 KHz.
- Dimensions and weights : see table on this data sheet.
- Fire resistance – 15 mn : > 50 kΩ.
- Very good resistance to Aircraft Fluids.
- Capacitance : < 85 pF/m at 100 KHz
- Impedance : 120 ± 20% Ω at 100 KHz
- Transfer impedance : < 30 mΩ at 100 KHz
- Attenuation : < 1.6 dB/100 m at 100 KHz

Identification

- Core identification *Colours*:
  Two cores : White with a helical red / blue stripe
  Marking *Wording* : EN DW A ++ FRF**
- Jacket identification colour: White with narrow red stripe
  Marking *Wording* : EN xxx ++ FRF**
  With : xxx type code TBD
  ++ = AWG Wire Size
  FR = Country of Origin (FR = France)
  F = Manufacturer (F = Filotex®)
  ** = Year of Manufacturing (ie. 03 = 2003)

Specification : EN 4608-005

PRODUCT REFERENCES

EN 4608-005B 002
EN 2346-005

CONSTRUCTION

CORE
Conductor
① Stranded conductor :
19 x 0.120 Nickel clad copper alloy

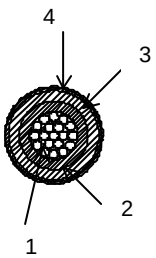
Insulation
② Fire resistant insulation

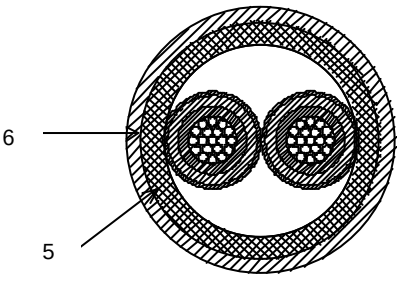
③ Polyimide Tape

④ PTFE Tape

SCREEN
⑤ 0.12 Nickel plated copper braid

JACKET
⑥ UV PTFE Tape(s)





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DIMENSIONS AND WEIGHTS

REFERENCE	Size Code	AWG	Finished Cable			
			No of cores	DC Resistance at 20°C (Ohms/Km)	Diameter (mm)	Weight (g/m)
				Max.	Max.	Max.
EN 4608-005B 002	002	24	2	135	4.00	27.5

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Part 6

Special cables

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AEROSPACE

STUDY 124401

Filotex®

Low Noise Screened Pair Cable
Transmission Cable 260 °C

Applications

- General Electronic Wiring.

Main data

- Voltage Rating: 600 Volts RMS
- Operating Temperature: -54 to +260°C
- Voltage withstanding: - Insulation : 2000 V RMS
  - Jacket : 5000 V Impulse
- Insulation resistance: > 10^{12} Ω.m (Core/Core and Core/Screen)
- Capacitance 100 Pf/m (between cores)
  200 Pf/m (between core and screen)
- Triboelectrical noise
  from 30 to 90 Hz, displacement 2 mm pk-pk : < 0.15 pC
  from 20 to 50 Hz, displacement 5 mm pk-pk : < 1 pC
  at 2 Hz, displacement 40 mm pk-pk : < 10 pC
- Excellent chemical resistance
- Nominal weight: 68.9 g/m

Identification

- Color of cores : Red, Blue
- Color of Jacket : Black

PRODUCT REFERENCES

FILOTEX Ref : **ET 124401**

CONSTRUCTION

① 2 CORES :
Stranded conductor :
19 x 0.203 Nickel plated copper alloy (PD 135)
Insulation:
Extruded PTFE
Semi-conductive tape
Diameter = 1.78 mm

② GLASS FIBER FILLERS

③ SEMI-CONDUCTIVE TAPE
Diameter = 3.74 mm

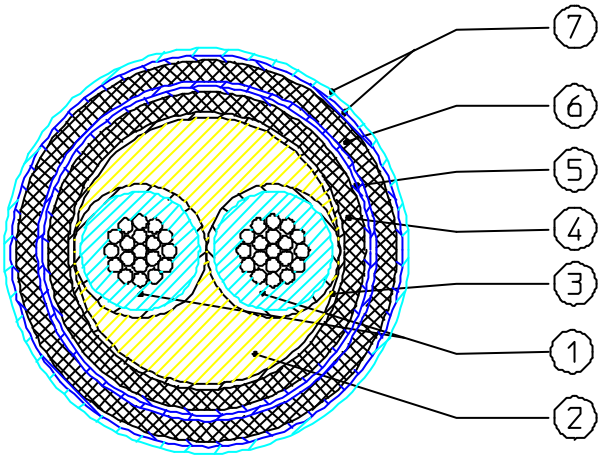
④ SHIELD
0.12 mm Nickel plated copper braid
91% (US) minimum coverage
Diameter = 4.22 mm
INNER JACKET

⑤ Polyimide tape(s)
51% minimum overlap

⑥ SHIELD
0.12 mm Nickel plated copper braid
91% (US) minimum coverage
Diameter = 4.83 mm

⑦ OUTER JACKET
Polyimide tape(s)
PTFE tape(s)
51% minimum overlap
OD = 5.20 ± 0.20 mm

FILOTEX® Study 124401



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Nexans

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AEROSPACE

NSA 935 306 YK
STUDY 86891

Filotex®

Low noise transmission cable 260°C

Characteristics:

- Operating temperature : -55 to +260°C
- Operating voltage : 600 V AC
- Voltage withstanding :
  between cores 1500 V AC
  between cores and shield 1500 V AC
- Insulation resistance : ≥ 1000 MΩ.Km
- Capacitance 100 Pf/m (between cores)
  200 Pf/m (between cores and shield)
- Triboelectrical noise
  2 Hz, 40 mm pk-pk : ≤ 10 pC
  5 to 50 Hz , 5 mm pk-pk : ≤ 1 pC
  10 Hz to 70 Hz , 2 mm pk-pk : ≤ 0.15 pC
- Nominal weight : 38.2 g/m
- Identification : 1 core Red - 1 core blue
- White jacket

PRODUCT REFERENCES

NSA 935 306 YK ET 86891

CONSTRUCTION

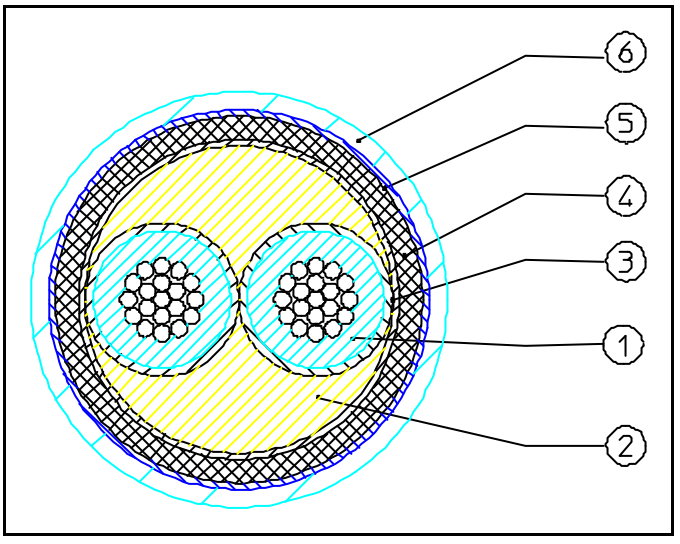
① 2 CORES
CONDUCTOR
19 x 0.17 mm
Silver plated copper clad steel
INSULATION
Extruded PTFE 1.40 ± 0.05 mm
Semi-conductor tape
Diameter 1.58 mm nom.

② GLASS FIBER FILLERS

③ SEMI-CONDUCTOR TAPE

④ SHIELD
Nickel plated copper ∅ 0.12 mm
Kr > 70%

JACKET
⑤ Polyimide tape(s)
⑥ PTFE tape(s)
OD max 4.35 mm



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AEROSPACE

MBBN 3320 YH +++
STUDY 96532 / STUDY 96533

Filotex®

Cable electric, Nickel chromium/Nickel aluminium Jacketed, Shielded Twisted pair

Electrical Characteristics

- Voltage rating : 600 Volts RMS

Thermal Characteristics

- Temperature rating : -55°C /+ 260°C

Properties

- Resistant to fungus and to fluids used on board
- Flame resistant

EMF : 10.56 ± 0.12 mV at +260°C

Identification

- Conductor Nickel Chromium : White
- Conductor Nickel Aluminium : Green
- Jacket : Green (Size 006)

  Green With narrow White Stripe (Size 004)
- Marking : Colour : Black
- Wording : MBBN 3320 YH +++ FR F **

  +++ = Code for Nominal Section

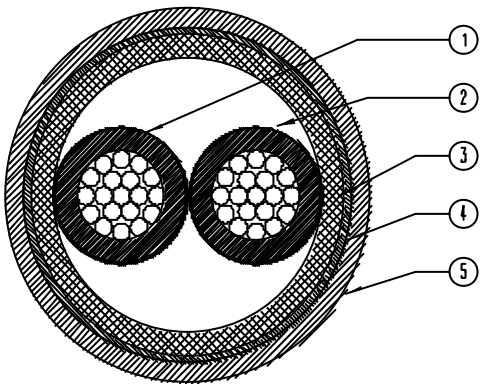
  FR = Country of Origin (FR=France)

  F = Manufacturer (F=Filotex®)

  ** = Year of Manufacturing (ie.00 = 2000)

Specifications

- MBBN 3320
- prEN 4049



PRODUCT REFERENCES

MBBN 3320 YH +++
ET 96532, ET 96533

CONSTRUCTION

① CONDUCTOR
Stranded conductor :
19 x 0.20 mm
Nickel Chromium for Size 006
or 19 x 0.15 mm
Nickel Chromium for Size 004
INSULATION
PTFE / Polyimide /PTFE Tapes

② CONDUCTOR
Stranded conductor :
19 x 0.20 mm
Nickel Alumimium for Size 006
or 19 x 0.15 mm
Nickel Alumimium for Size 004
INSULATION
PTFE / Polyimide /PTFE Tapes

③ SCREEN
Nickel plated Copper Braid
JACKET

④ Polyimide Tape

⑤ PTFE Tape

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Nexans

DIMENSIONS AND WEIGHT

Code for Nominal section	US AWG	CONDUCTORS		CORES	SCREEN	OHMIC RESISTANCE At 20°C				FINISHED CABLES	
		Construction n x mm	Nominal Diameter (mm)	Maximal Diameter (mm)	Strands Diameter (mm)	Nickel Chromium (Ω/m)		Nickel Aluminium (Ω/m)		Maximal Diameter (mm)	Maximal Weight (g/m)
						Min.	Max.	Min.	Max.		
004	22	19 x 0.15	0.75	1.45	0.12	1.995	2.411	0.786	0.951	4.00	24.3
006	20	19 x 0.20	1.00	1.67	0.12	1.122	1.357	0.443	0.534	4.55	31.4

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AEROSPACE

Filotex® Type ASNE0409 ASNE0410 ASNE0411 ASNE0412

Filotex®

Shielded and Sheathed single and multicores
UV Laser printable

Applications

- Designed for Flight Testing Wiring.

Main data

- Operating temperature : -55°C to +200°C.(Ambiant + Rise)
- Voltage rating : 600 Volts RMS.
- Operating frequency : up to 2500 Hz.
- Dimensions and weights : See tables on this data sheet
- Very Good Resistance to Aircraft Fluids.
- Mould and Fungus Resistant
- Solderability test on conductors : according to ASNE0243

Identification

- Cores and Sheath Colours : See Table on this Data Sheet
- Marking:

Colour : White on Red and Black wires
Dark Green on other colours.

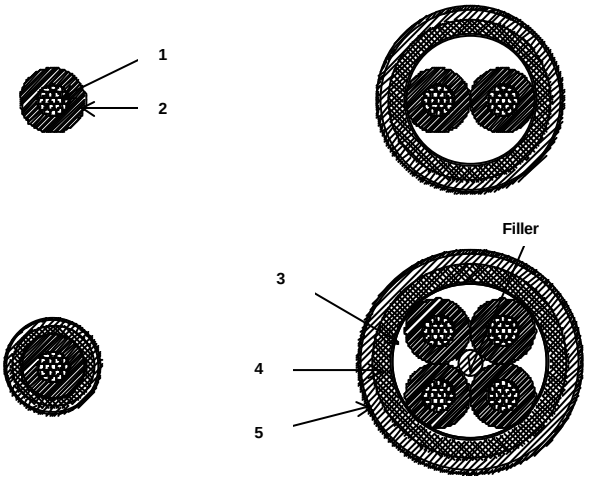
Wording : *On Cores* ■ BG** FRF++ ■ BG** FRF++
On Sheaths ■ $$** £ FRF++ ■ $$** £ FRF++

With : $$ = ASNE Type (SU, TV or VF)
** = AWG Wire Size
£ = Topcaot Code (U or None)
FR = Country of Origin (FR = France)
F = Manufacturer (F = Filotex®)
++ = Year of Manufacturing (ie. 01 = 2001)

Specifications

- ASNE0409, ASNE0410, ASNE0411, ASNE0412, ASNE0243
- NSA 935000, SDF/B67-04/A/108/1128

Filotex® ASNE0409 - ASNE0410 - ASNE0411 - ASNE0412



PRODUCT REFERENCES

ASNE0409 BG
ASNE0410 SU
ASNE0411 TV
ASNE0412 VF

CONSTRUCTION

CORES (ASNE0409)
① Conductor :
19 x 0.120 Nickel plated copper
(Suitable for solderability)
② Insulation :
PTFE tape

ASSEMBLY (2 and 4 cores)
③ PTFE tape

SHIELD
④ Nickel Plated Copper Spinning

SHEATH
⑤ 1 Polyimide Tape

1 Orange PTFE UV Tape

NUMBER OF CORES
ASNE0410 : 1
ASNE0411 : 2
ASNE0412 : 4

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Nexans

DIMENSIONS AND WEIGHTS (METRIC UNITS)

Nexans Filotex[â] PART NUMBER	Nbr of Cores	Dia. of strand (mm)	Finished Cable						
			Colours		Maximum DC Resistance at 20°C (68°F) (Ohms/Km)	Diameter (mm)			Maximum Weight (g/m)
			Cores	Sheath		Mini.	Nom.	Max.	
ASNE0409 BG 24 UV	1	-	Orange		91.2	0.86	0.97	1.02	3.10
ASNE0410 SU 24 UV	1	0.08	White	Orange	91.2	-	1.42	1.50	6.40
ASNE0411 TV 24 UV	2	0.08	White + Light Blue	Orange	94	-	2.54	2.70	12.4
ASNE0412 VF 24 UV	4	0.10	White + Light Blue + Red + Black	Orange	94	-	2.99	3.10	21.8

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Part 7

Optical cable

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AEROSPACE

ABS0963-003 LF

Filotex®

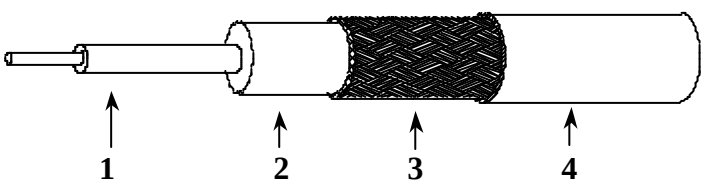
Multimode Fibre Optic Cable 62.5/125

Main data

- Operating temperature :
  - Long term : -55 to +125°C
  - Peak : -65 to +150°C
- Maximum pulling force :
  - Long term : 10 daN
  - Short term : 25 daN
- Tensile strength : > 100 daN
- Nominal weight : < 4 kg/km
- Minimum bend radius :
  - Storage > 40 mm
  - Long term > 20 mm
  - Short term (installation) > 12 mm
- Minimum bend radius :
  - Storage > 40 mm
  - Long term > 20 mm
  - Short term (installation) > 12 mm
- Maximum attenuation at 20°C :
  - at 850 nm : 4 dB/km
  - at 1310 nm : 2 dB/km
- Effective index of refraction:
  - at 850 nm : 1.4970
  - at 1300 nm : 1.4919
- Numerical aperture : 0.275 ± 0.015
- Cable Bandwidth (MHz. km) :
  - at 850 nm : >400
  - at 1310 nm : > 1000

Spécifications

- ABS0963-003



PRODUCT REFERENCES

ABS0963-003 LF
ET 132126

CONSTRUCTION

① OPTICAL FIBRE :
Core +cladding + coating
Silica/Silica/Silicone
Type 62.5/125/400 µm

② PRIMARY JACKET :
Copolymer 0 Halogen High Temperature
∅ : 0.90 ± 0.05 mm

③ MECHANICAL STRENGTH :
Polymer aromatic fibre braid

④ OUTER JACKET:
Copolymer O Halogen
High Temperature
∅ : 1.50 mm (for info.)
+
E.T.F.E
∅ : 1.80 ± 0.1 mm

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Nexans

Connection :

Stripping of primary jacket , buffer and coating .

If mechanical stripping is used , we highly recommend :
To strip directly from primary jacket to silica
to carefully clean silica with a solvent such as MEK (Methylethylketone).

Residues of silicone can be removed with a wet tissue by wiping off of different angles in order to clean all the circumference of the silica.

If you dip bare fibre into solvent , take care to avoid contact between solvent and other part of the cable such as strength members , silicone and jacket.

Advantages

- Small diameter
- Low weight
- Good chemical resistance
- Good mechanical resistance
- Flame retardant
- Flammability : non flammable
- Smoke density and toxicity (According to ABD0031 chart1)

PARAMETERS		With Flame		Without Flame	
		Requested	Measured	Requested	Measured
Dm 4 mn		≤ 200	65	≤ 200	0
Dm 16 mn (for information)		-	207	-	50
TOXICITE at 4 mn	HF	≤ 100	30	≤ 100	0
	HCL	≤ 150	0	≤ 150	0
	HCN	≤ 150	2	≤ 150	0
	SO_2/H_2S	≤ 100	0	≤ 100	0
	NO/NO_2	≤ 100	5	≤ 100	0
	CO	≤ 1000	50	≤ 1000	≈ 0
TOXICITY at 16 mn	HF	≤ 100	25	≤ 100	6
	HCL	≤ 150	0	≤ 150	0
	HCN	≤ 150	5	≤ 150	1
	SO_2/H_2S	≤ 100	0	≤ 100	0
	NO/NO_2	≤ 100	10	≤ 100	0
	CO	≤ 1000	400	≤ 1000	50

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PARAMETER and Measuement norm	TEST Description and Remarks	RESULTS **
Core Diameter ANSI/EIA/TI – A455-58 A		62.5 ± 3 µm
Cladding Diameter ANSI/EIA/TI – A 455-45 B		125 ± 2 µm
Core « non » circularity ANSI/EIA/TI – A 455-45 B		≤ 5% (3µm)
Concentricity error ANSI/EIA/TI – A 455-45 B		3 µm
Numerical aperture ANSI/EIA/TI – EIA 455-177A		0.275 ± 0.015
Cladding non circularity ANSI / EIA / TI – A 455 – 45 B		≤ 2 % (2.5 µm)
Index of refraction ANSI/EIA/TIA 455/44B		1.4970 at 850 nm 1.4919 at 1310 nm
Fibre bandwith ANSI/EIA/TI – EIA 455-30B	Tests performed on a 1300 m length	>400 MHz. km (850 nm) > 1000 MHz. km (1310 nm)
Primary Jacket ANSI/EIA/TI – A 455-55B		900 ± 50 µm
Outer Diameter ANSI/EIA/TI – 455-55C		1.80 ± 0.1 mm
Cable Stability EN 3745 – 205	Silica versus primary jacket Primary jacket versus outer jacket (2 m and 20 m)	Shrinkage < 100 µm Shrinkage < 200 µm
Attenuation EIA 455-53B **Discontinuity** EIA 455-59		At 850 nm < 4 dB/km At 1310 nm < 2 dB/km Discontinuity < 0.2 dB/dB/point
Ambient light coupling EN 3745 – 305	(20 m) solar spectrum (6000 K) 86400 Lux	≤ - 80dBm
Cable attenuation variation during temperature cycling EN 3745 306	5 cycles according to EN 3745 – 402 (20 m)	During test < 0.4 dB** After test ≈ 0 (850 nm, 1310 nm)
Accelerated ageing EN 3745 – 401	(100 m) ∅ mandrel : 250 mm 168h at 125°C	(850 and 1310 nm) During test ≤ 0.05 dB** Residual < 0.1 dB**
Cable temperature cycling EN 3745 – 402 definition	High temp. 125°C Low temp. –55°C Duration of high & low temp. 30mn Rate of change : 5°C (20 m)	
Thermal shock EN 3745 – 404	4 cycles 125°C/30mn -55°C/30mn 20°C (20 m)	Maximum permissive variation in attenuation during test sequence and after 24h : < 0.5dB**

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PARAMETER and Measuement norm	TEST Description and Remarks	RESULTS **
Cable cold bend test EN 3745 – 406	∅ mandrel : 40 mm 10 turns (2 m) 2 cycles 20°C /-55°C 2 windings and unwindings at –55°C	During test :Δα max < 0.6 dB** After 24h : < 0.1 dB**
Flammability EN 3745 – 407	0s	Passed
Life time EN 3745 – 410	(100 m)	> 1000 h at 125 °C
Resistance to fluids EN 3745 – 411	Fluids according to EN 3909	Weight variation < 5% No cracks, no colour change Good printing legibility
Humidity resistance EN 3745 – 412	15 cycles >95% R.H. (20 m)	passed
Fibre proof test EN 3745 – 501	1%/1seconde exceed 100 KPSI	passed
Scrape abrasion EN 3745 – 503	∅ needle : 0.5 mm Load : 10N 100 cycles	Δα<0.1 dB **at 1310 nm during test
Micro-bending EN 3745 – 504	∅ mandrel : 20 mm Load : 150 N	Δα<0.2 dB** at 1310 nm during test 15 mn after test, Residual attenuation ≈ 0 dB
Cable tensile strength EN 3745 – 505		Cable breakage > 1100N Δα< 0.2 dB** for 150 N load
Cable impact test EN 3745 – 506	Energy : 5 J Anvil radius : 15 mm	After 5 impacts Δα< 0.1 dB**
Cable Cut-through EN 3745 – 507	Load 20N / 1 mn	During test Δα< 0.3 dB** After test Δα ≈ 0 dB** No insulation degradation No fibre breakage
Torsion test EN 3745 – 508	Cable tension load : 10 N Length under torsion = 250 mm 1000 cycles	Δα at 1310 nm during test : 0 dB for one cycle < 0.1 dB** for 1000 cycles
Kink test EN 3745 – 509	∅ of the kink : 20 mm	Δα at 1310 nm during test : < 0.2 dB**
Bending test EN 3745 – 510	∅ mandrel : 25 mm 10 turns Tension load on cable : 20 N	After bending : Δα 0.15 dB** After unwinding : Δα residual ≈ 0 dB
Cable to cable Abrasion EN 3745 – 511	Optical / Electrical Optical / Electrical Optical / Optical	> 10^7 for * CF* 18 with 1 daN load >10^7 for * DM* 18 with 1 daN load 6x10^6 for 500g load
Flexure Endurance EN 3745 – 512	Tension load on cable : 10 N ∅ mandrel : 25 mm 3000 cycles	Δα before and after test < 0.1 dB** No insulation degradation
Smoke Density EN 3745 – 601	ABD 0031 Method: AITM 2.0008	See Chart 1

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PARAMETER and Measuement norm	TEST Description and Remarks	RESULTS **
Toxicity EN 3745 – 602	ABD 0031 Method: AITM 3.0005	See Chart 1
Strippability EN 3745 – 701	Load : 20 N Stripped length : 50 mm Stripping speed : 25 to 50 mm/mn	< 7 N on secondary coating, 900 µm
Durability of manufacturer identification EN 3745 – 703	∅ needle : 0.5 mm Load : 1.5 N 125 cycles	After test, good printing legibility
UV laser marking EXCIMER Laser (XeCPI) between 0.9 and 1.05 J/ cm^2	Marking contrast versus jacket > 65 %	

* **CF =** Polyamide tapes + FEP coating
* **DM =** PTFE wrapped jacket.

** Optical tests performed with a 85 % / 85 % source (near field and far field) launch conditions.
Launch conditions are calibrated at 15 %

1- STRONG POINTS

Mechanical properties :
- High temperature
- High tensile resistance
- High flexibility
- Low weight / Small diameter
- Low bending radius
- Easy strippability

Optical properties :
- High bandwidth
- Low cost ferrules (Telecom components)

Chemical properties :
- High chemical resistance
- Very low smoke and toxicity
- No flame propagation

2 – MAIN TARGET APPLICATIONS

Harsh environments such as :
- Aeronautical
- Geophysics
- Space
- Missile
- Chemical industry

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About Nexans

Nexans, with its Filotex® products, has a high technology knowledge and an international experience, which has been developed in different industrial areas:

❒ Aerospace,
❒ Railways and Shipboard,
❒ Automotive,
❒ Military and Navy,
❒ Industrial Instrumentation,
❒ Geophysics,
❒ Micro-Computing,
❒ Medical.

■ A global presence

In order to offer the **best service**, to be close to its customers and respond quickly to their requirements, Nexans is **present worldwide**.

The production centres are located over 3 continents with sales representatives in 20 countries.

■ A wide range of products

❒ Single / Multicore cables (hook-up wires),
❒ Coaxial cables (RG, ..),
❒ Bus cables (multipairs),
❒ Special cables (cables for sensors…),
❒ Twinaxial cables,
❒ Microcables and microcoaxial cables.

Also available:

• Optical cables and 'hybrid' cables which perform under very harsh ambient conditions for aeronautics, railways & shipboard, geophysics and industry.

• Special cable assemblies for applications in aerospace, railways, defence, micro-computing, medical devices…

■ Our strengths

❒ High technology capabilities:
• Insulation knowledge : different materials & processes,
• Screen knowledge : braid and / or tape, spiral,
• Miniaturization : exclusive technology process.

❒ Worldwide experience (different markets)

❒ Development & production capacity:
• Standard or customized products,
• Small or long series,
• Several R&D and production centres.

Global expert in cables and cabling systems

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