

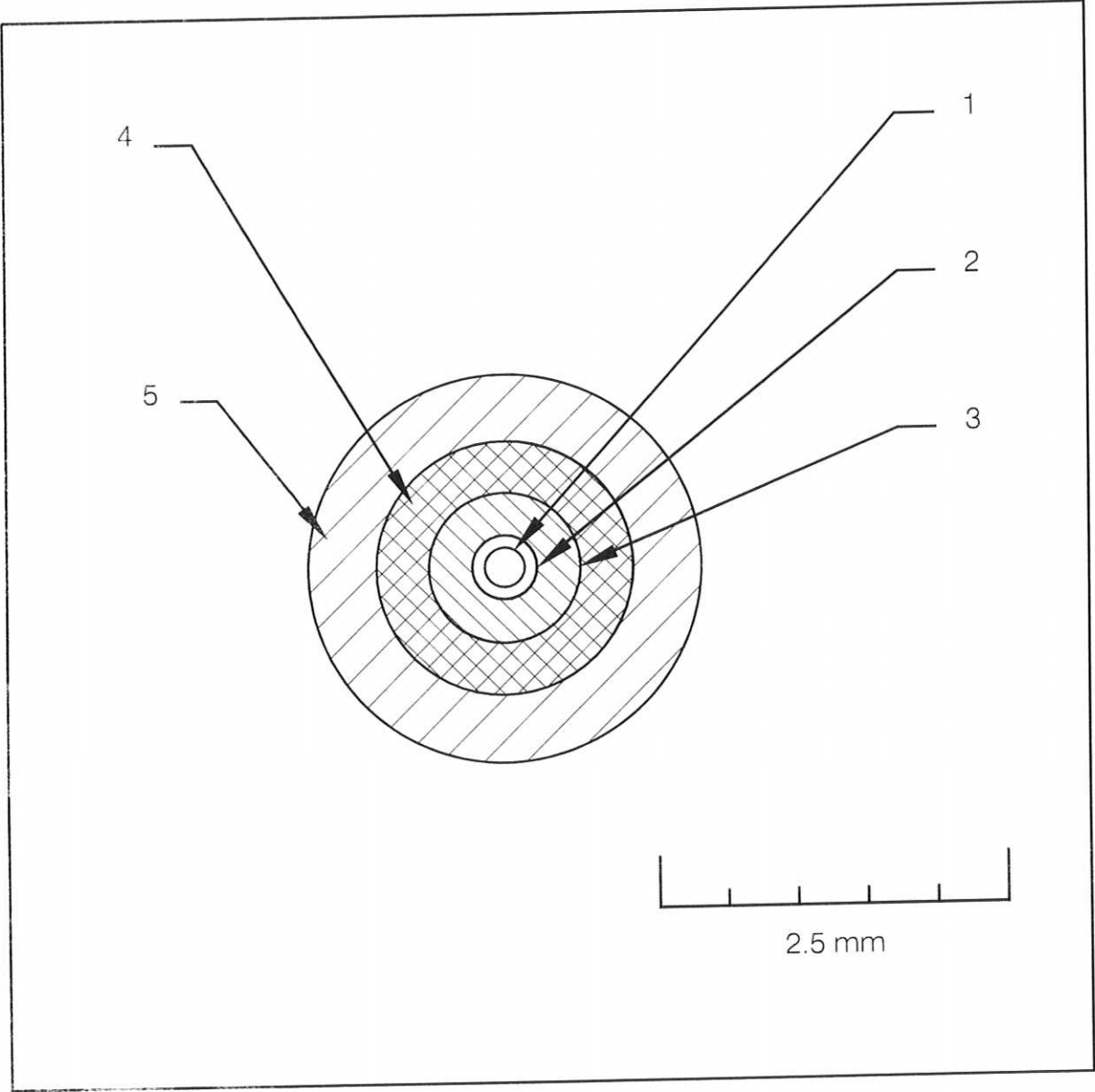
	STRUCTURE SC LSZH SC-xH	SP/464/E
		Revision : 3
		Date : 11/08/2006

<i>STRUCTURE AND DIMENSIONS</i>	
- Coated optical fibre	Ø 250/400/900 µm
- Reinforcing elements : aramide yarns	
- Outer sheath in LSHF-FR material	Ø 2.80 mm ± 0.15 mm Thickness : 0.60 mm
<i>MECHANICAL AND THERMAL PERFORMANCES</i>	
- Weight	8 g/m
- Maximum pulling force (IEC-794-1-E1)	75 daN
- Maximum operating pulling force	35 daN
- Minimum bending radius	35 mm
- Compression (IEC-794-1-E3)	250 daN/dm
- Impacts (IEC-794-1-E4)	100 impacts of 1 N.m
- Operating temperature range (IEC-794-1-F1)	-10°C +60°C
- Storage temperature range	-30°C +60°C
- LSHF-FR (Low Smoke Halogen Free - Flame Retardant)	(IEC-332-3/C)
<i>MARKING</i>	
"NEXANS FIBRE OPTIC CABLE – SC – SP 464 - fibre count x fibre type – FB – task number – metric marking"	

* Nexans, GIGALite II, 3 or 4 (depending on the selected fibre quality)

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	L. Alessi	R. Helvenstein

Opticable a Nexans company	STRUCTURE SC LSZH SC-xH		SP/464/E
			Revision : 3
			Date : 11/08/2006



- 1 : Optical fibre
- 2 : Coating Ø 400 µm
- 3 : Coating Ø 900 µm
- 4 : Reinforcing elements of aramide yarns
- 5 : Outer sheath of LSHF-FR material

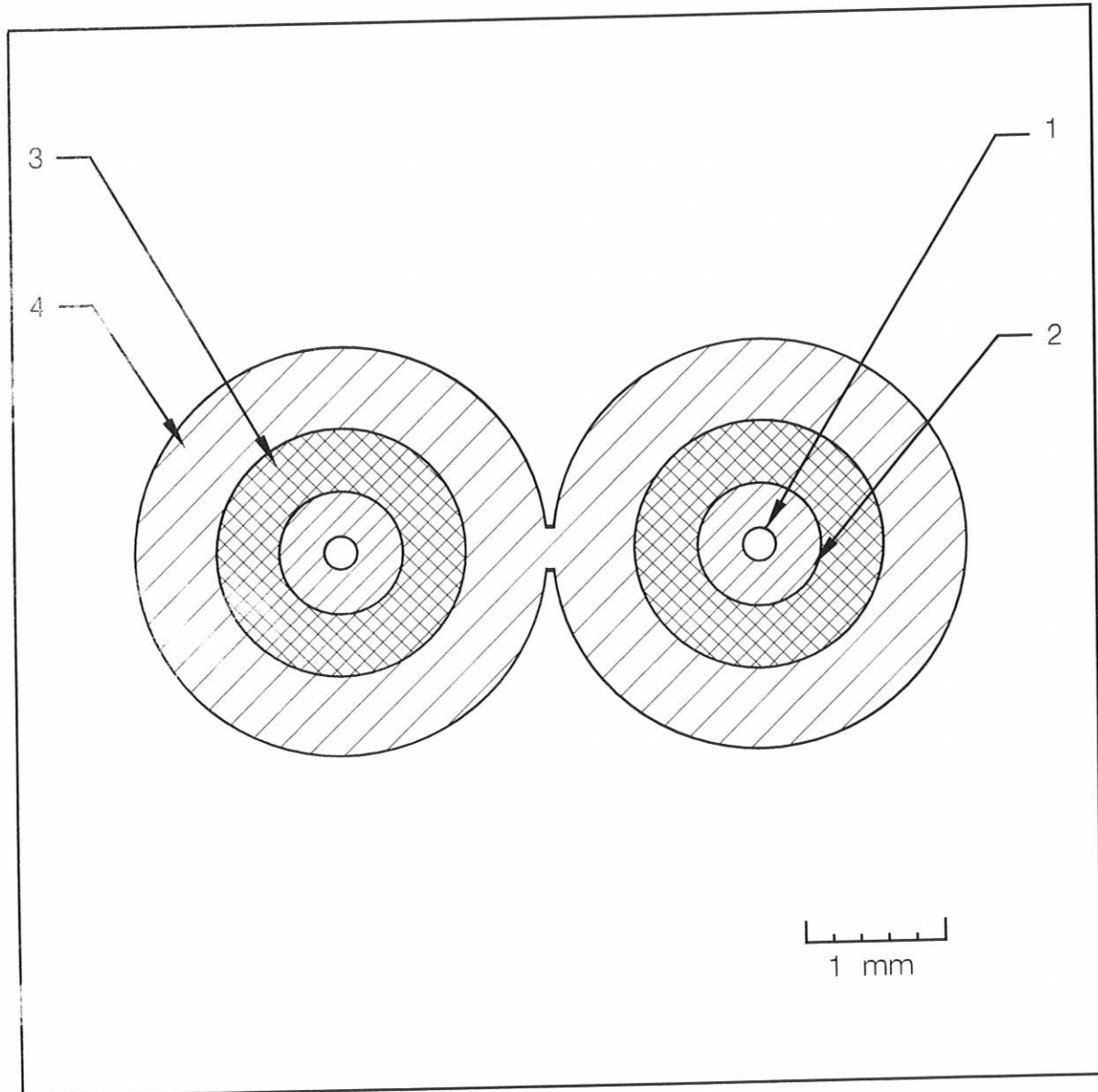
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	STRUCTURE ZC LSZH	SP/526/E
		Revision : 4
		Date : 16/10/2002

<i>STRUCTURE AND DIMENSIONS</i>	
- Coated optical fibre	Ø 250/900 µm
- Reinforcing elements : aramid yarns	
- Outer sheath of LSHF-FR material	Ø 2.80 mm ± 0.15 mm Ø 5.80 mm ± 0.25 mm Thickness : 0.6 mm
<i>MECHANICAL AND THERMAL PERFORMANCES</i>	
- Weight	14 g/m
- Maximum pulling force (IEC-794-1-E1)	90 daN
- Maximum operating pulling force	45 daN
- Minimum bending radius	35 mm
- Compression (IEC-794-1-E3)	300 daN/dm
- Impacts (IEC-794-1-E4)	100 impacts of 1 N.m
- Operating temperature range (IEC-794-1-F1)	-10°C +60°C
- Storage temperature range	-30°C +60°C
- LSHF-FR material (Low Smoke Halogen Free-Flame Retardant) (IEC-332-3/C)	
<i>MARKING</i>	
"NEXANS FIBRE OPTIC CABLE – ZC – SP526 - fibre count x fibre type – FB – task number – metric marking"	

* Nexans, GIGAlite II, 3 or 4 (depending on the selected fibre quality)

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- 1 : Optical fibre
- 2 : Coating Ø 900 µm
- 3 : Reinforcing elements in aramid yarns
- 4 : Outer sheath of LSHF-FR material

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L. Alessi

Approved by

R. Helvenstein

ELECTRONIC



Filotex®

URM 76 HF COAXIAL 50 Ω

Main characteristics

- ❑ Operating temperature: -20 to +80°C
- ❑ Flame resistance according to: CEI 332 -1
- ❑ Nominal capacitance: 105 pF/m
- ❑ Nominal propagation velocity : 65.9 %
- ❑ Characteristic impedance at 200 MHz: $50 \pm 3 \Omega$
- ❑ Test Voltage: 1500 V_{AC} / min

PRODUCT REFERENCE

FILOTEX Ref: 2PE 380

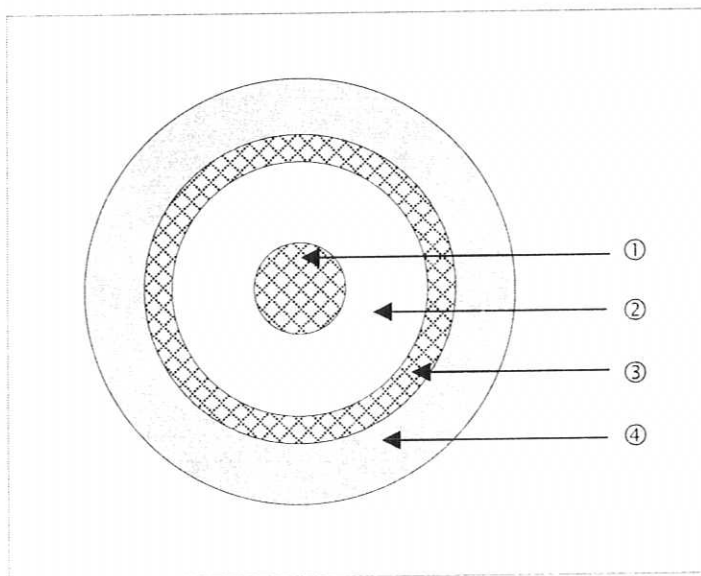
CONSTRUCTION

1- CONDUCTOR:
Stranded 7x0.32mm
Bare copper $\varnothing = 0.95$ mm

2- DIELECTRIC:
Polyethylene
 $\varnothing = 3.00$ mm ± 0.10

3- SCREEN:
Single braid bare copper

4- JACKET:
HALOGEN FREE
 $\varnothing = 5.00$ mm ± 0.10

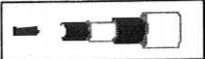


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ELECTRONIC



Filotex®

URM 76
COAXIAL 50 Ω

PRODUCT REFERENCE

FILOTEX Ref: **375 488**

Main characteristics

- ☐ Operating temperature: -40 to +85°C
- ☐ Flame resistance according to: CEI 332 -1
- ☐ Nominal capacitance: 105 pF/m
- ☐ Nominal propagation velocity : 65.9 %
- ☐ Characteristic impedance at 200 MHz: 50 p 3 :
- ☐ Test Voltage: 1500 V_{AC} / min

Application

High frequency connections.

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.32mm

Bare copper = 0.95 mm

2- DIELECTRIC:

Foam Polyethylene

= 3.00 mm p 0.10

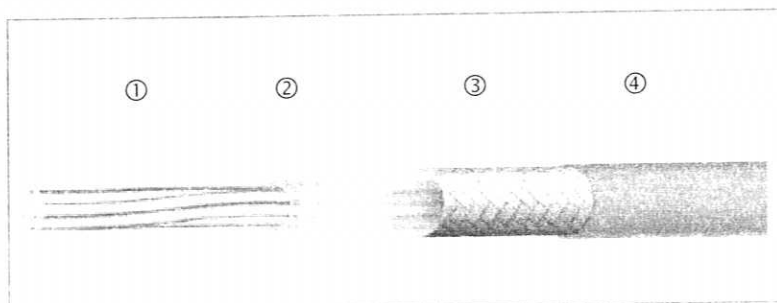
3- SCREEN:

Single braid bare copper

4- JACKET:

PVC

= 5.00 mm p 0.10



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Issue 1 21/10/2003

ELECTRONIC



URM 70 LSF COAXIAL 75 Ω

Filotex[®]

PRODUCT REFERENCE

FILOTEX Ref: **2PE 379**

Main characteristics

- ☐ Operating temperature: - 20 to +80°C
- ☐ Flame resistance according to: CEI 332 -1
- ☐ Nominal capacitance: 71.5 pF/m
- ☐ Nominal propagation velocity : 65.9 %
- ☐ Characteristic impedance at 200 MHz: 75 Ω
- ☐ Attenuation at 200 MHz: ≤ 21.8 dB/100 m
- ☐ Test Voltage: 1500 V_{AC} / min

Application

High frequency connections.

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.20mm

Bare copper = 0.60 mm

2- DIELECTRIC:

Solid Polyethylene

= 3.25 mm ϕ 0.10

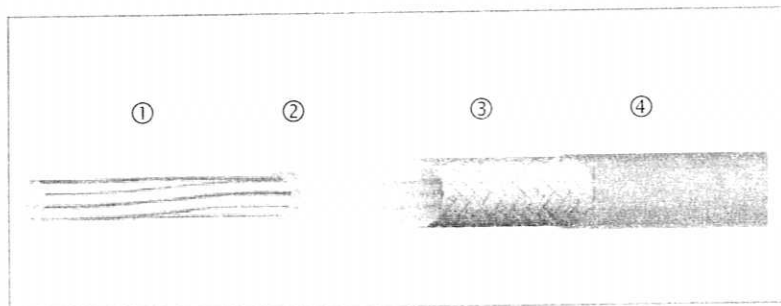
3- SCREEN:

Single braid bare copper

4- JACKET:

Halogen free

= 5.80 mm ϕ 0.10



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Filotex®

URM 70
COAXIAL 75 Ω

PRODUCT REFERENCE

FILOTEX Ref: **390 591**

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Flame resistance according to: CEI 332 -1
- ☐ Nominal capacitance: 71.5 pF/m
- ☐ Nominal propagation velocity : 65.9 %
- ☐ Characteristic impedance at 200 MHz: 75 Ω
- ☐ Attenuation at 200 MHz: ≤ 21.8 dB/100 m
- ☐ Test Voltage: 1500 V_{AC} / min

Application

High frequency connections.

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.20mm

Bare copper = 0.60 mm

2- DIELECTRIC:

Solid Polyethylene

= 3.25 mm ± 0.10

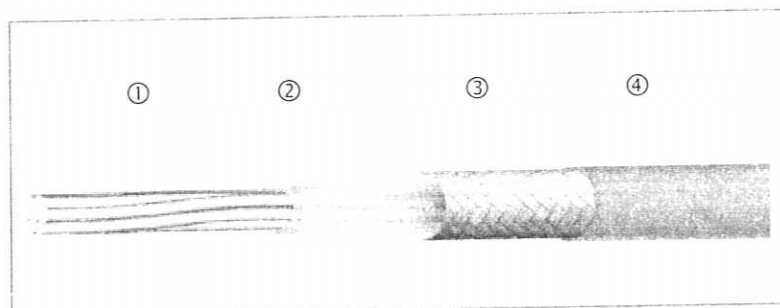
3- SCREEN:

Single braid bare copper

4- JACKET:

PVC

= 5.80 mm ± 0.10



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ELECTRONIC



Filotex[®]

URM 67 COAXIAL 50 Ω

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Nominal capacitance: 105 pF/m
- ☐ Nominal propagation velocity : 65.9 %
- ☐ Characteristic impedance at 200 MHz: 50 Ω $\pm$ 3 :

PRODUCT REFERENCE

FILOTEX Ref: **390 613**

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.75mm
Bare copper = 2.25 mm

2- DIELECTRIC:

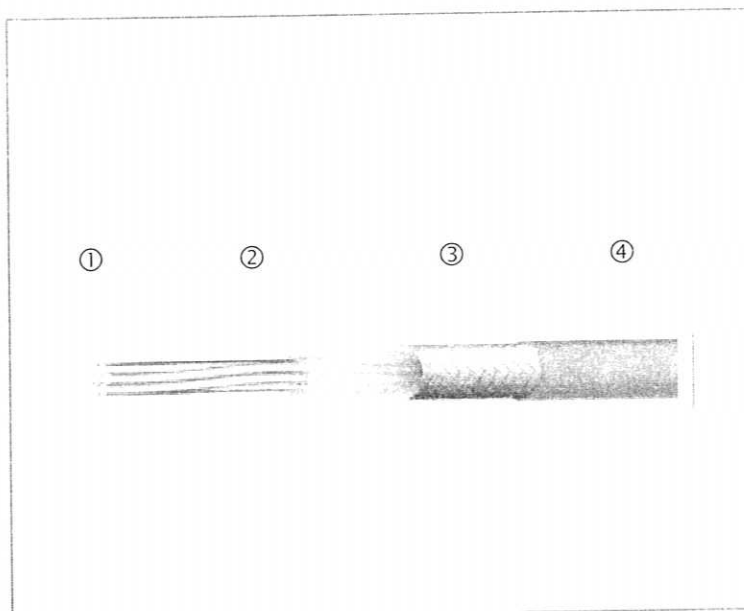
Solid Polyethylene
= 7.25 mm ϕ 0.25

3- SCREEN:

Single braid bare copper

4- JACKET:

PVC
= 10.30 mm ϕ 0.15



ELECTRONIC



URM 43 COAXIAL 50 Ω

Filotex[®]

PRODUCT REFERENCE

FILOTEX Ref: **277 837**

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Flame resistance according to: CEI 332 -1
- ☐ Nominal capacitance: 108 pF/m
- ☐ Nominal propagation velocity : 65.9 %
- ☐ Characteristic impedance at 200 MHz: 50 Ω
- ☐ Attenuation at 200 MHz: ≤ 20.7 dB/100 m
- ☐ Test Voltage: 1500 V_{AC} / 1min

Application

High frequency connections.

CONSTRUCTION

1- CONDUCTOR:

Bare copper = 0.90 mm

2- DIELECTRIC:

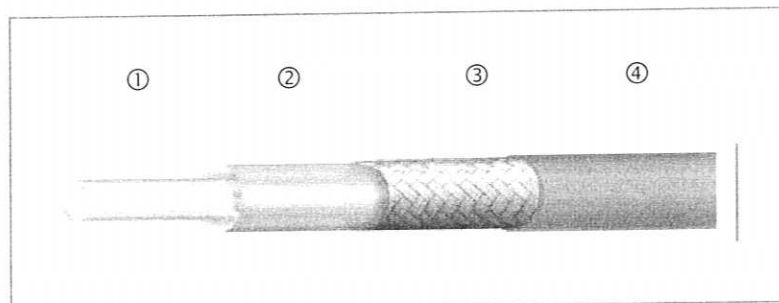
Solid Polyethylene
= 3.02 mm ϕ 0.05

3- SCREEN:

Single braid bare copper

4- JACKET:

PVC
= 5.00 mm ϕ 0.10



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ELECTRONIC



Filotex®

URM 76 LSF COAXIAL 50 Ω

PRODUCT REFERENCE

FILOTEX Ref: **2PE 380**

Main characteristics

- ☐ Operating temperature: -20 to +80°C
- ☐ Flame resistance according to: CEI 332 -1
- ☐ Nominal capacitance: 105 pF/m
- ☐ Nominal propagation velocity : 65.9 %
- ☐ Characteristic impedance at 200 MHz: 50 Ω ± 3 %
- ☐ Test Voltage: 1500 V_{AC} / min

Application

High frequency connections.

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.32mm

Bare copper = 0.95 mm

2- DIELECTRIC:

Foam Polyethylene

= 3.00 mm ± 0.10

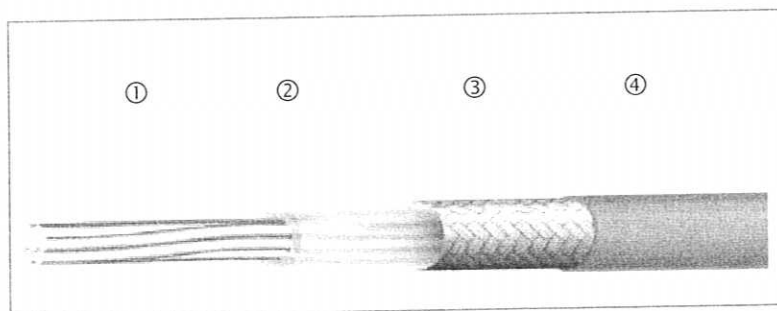
3- SCREEN:

Single braid bare copper

4- JACKET:

HALOGEN FREE

= 5.00 mm ± 0.10



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ELECTRONIC



Filotex®

M17/167-00001 (RG 223 U)
COAXIAL 50 Ω
85°C Polyethylene

PRODUCT REFERENCE

FILOTEX Ref:

RG 223 U (ET 373184)

CONSTRUCTION

1- CONDUCTOR:

Solid 1x0.89

Silver plated copper
= 0.89 mm

2- DIELECTRIC:

Solid Polyethylene

= 2.95 mm ρ 0.10

3- SCREEN:

Double braid

Silver plated copper

4- JACKET:

PVC

= 5.38 mm ρ 0.10

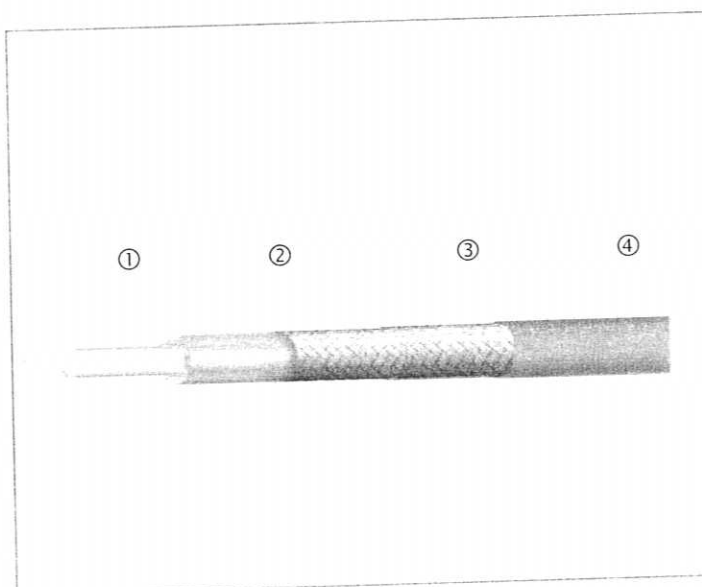
To: MIL C17

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Continuous working voltage: 1400 volts
- ☐ Maximal operating frequency: 12.4 GHz
- ☐ Good resistance to flame NFC 32070/C2 & CEI 332 -1&2
- ☐ Capacitance: < 106 pF/m
- ☐ Relative velocity of propagation: 65.9 %
- ☐ Characteristic impedance at 200 MHz: 50 ρ 2 :
- ☐ Attenuation
 - at 200 MHz : 20 dB/100 m
 - at 400 MHz : 30 dB/100 m
 - at 3000 MHz : 100 dB/100m
 - at 10000 MHz : 240 dB/100 m
- ☐ Dielectric withstanding at 50 Hz: 5 kV
- ☐ Nominal weight: 55 kg/km

Application

High frequency connections.



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ELECTRONIC



Filotex®

M17/169-00001 (RG 178 B/U)
M17/93-00001 (RG 196)
COAXIAL 50 Ω
200°C/230°C PTFE

PRODUCT REFERENCE

FILOTEX Ref:

RG 178 B/U (ET 087069)
RG 196 (ET 087247)

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.10

Silver plated copper clad steel
= 0.30 mm

2- DIELECTRIC:

Extruded PTFE

= 0.84 mm p 0.05

3- SCREEN:

Single braid

Silver plated copper

4- JACKET:

T° = 200°C FEP (RG178BU)

T° = 230°C PFA (RG196)

= 1.80 mm p 0.10

To: MIL C17

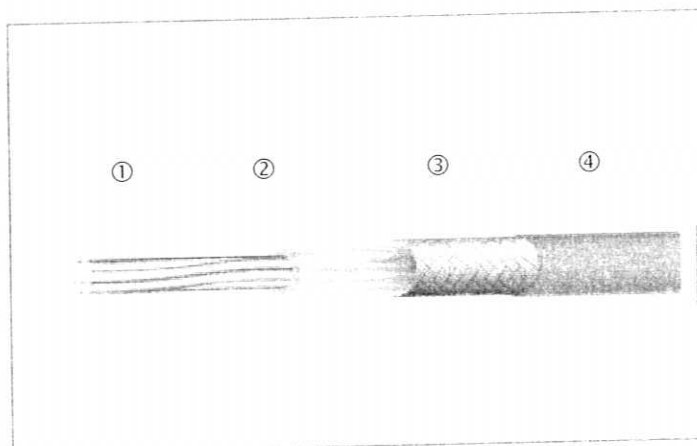
Main characteristics

- ☐ Operating temperature: - 90 to +200°C (FEP JACKET)
- 90 to + 230°C (PFA JACKET)
- ☐ Maximal operating frequency: 3 GHz
- ☐ Continuous working voltage: 750 volts
- ☐ Good resistance to aircraft fluids.
- ☐ Good resistance to flame NFC 32070/C1 & C2 (CEI 332 -1)
- ☐ Capacitance: < 105 pF/m
- ☐ Relative velocity of propagation: 69.5 %
- ☐ Characteristic impedance at 200 MHz: 50 p 2 :
- ☐ Attenuation at 200 MHz : 58 dB/100 m
at 400 MHz : 80 dB/100 m
at 3000 MHz : 225 dB/100m
- ☐ Dielectric withstanding at 50 Hz: 2 kV
- ☐ Nominal weight: 9.6 kg/km

Application

High frequency connections operating at high temperature.

By their small dimensions, they are mainly designed for miniaturized connections, operating at high or low temperature.

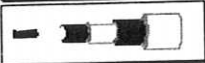


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ELECTRONIC



Filotex[®]

KX 15 / RG 58 C/U
COAXIAL 50 Ω
85°C Polyethylene

PRODUCT REFERENCE

FILOTEX Ref:

KX 15 / RG 58 C/U
(ET 373117)

CONSTRUCTION

- 1- CONDUCTOR:
Stranded 19x0.18
Tin plated copper
= 0.90 mm
- 2- DIELECTRIC:
Solid Polyethylene
= 2.95 mm ρ 0.10
- 3- SCREEN:
Single braid
Tin plated copper
- 4- JACKET:
PVC
= 4.95 mm ρ 0.15

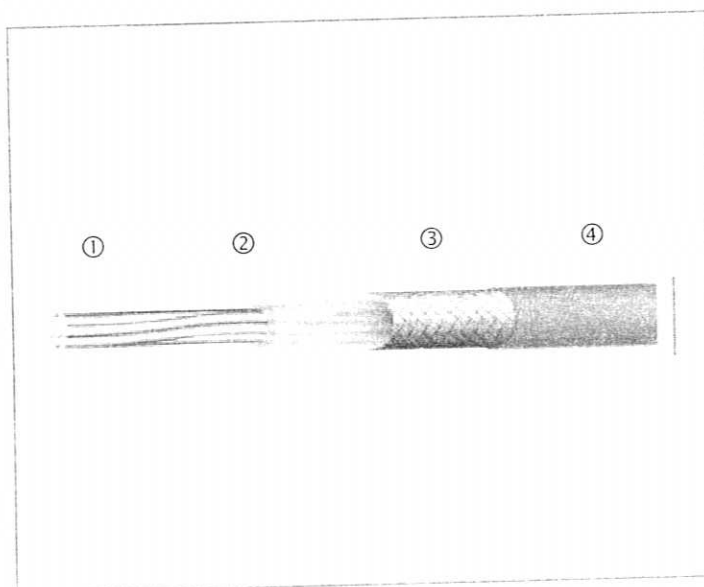
To: NF C93550, MIL C17

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Continuous working voltage: 1400 volts
- ☐ Maximal operating frequency: 3 GHz
- ☐ Good resistance to flame NFC 32070/C2 & CEI 332 -1&2
- ☐ Capacitance: 100 p 5 pF/m
- ☐ Relative velocity of propagation: 65.9 %
- ☐ Characteristic impedance at 200 MHz: 50 ρ 2 :
- ☐ Attenuation
 - at 200 MHz : 23 dB/100 m
 - at 400 MHz : 32 dB/100 m
 - at 3000 MHz : 98 dB/100 m
- ☐ Dielectric withstanding at 50 Hz: 5 kV
- ☐ Nominal weight: 36 kg/km

Application

High frequency connections.



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ELECTRONIC



Filotex®

M17/77-RG216 (RG 216 U) COAXIAL 75 Ω 85°C Polyethylene

PRODUCT REFERENCE

FILOTEX Ref:

RG 216 U (ET 373182)

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.40
Tin plated copper
= 1.20 mm

2- DIELECTRIC:

Solid Polyethylene
= 7.24 mm ρ 0.18

3- SCREEN:

Double braid
Bare copper

4- JACKET:

PVC
= 10.80 mm ρ 0.18

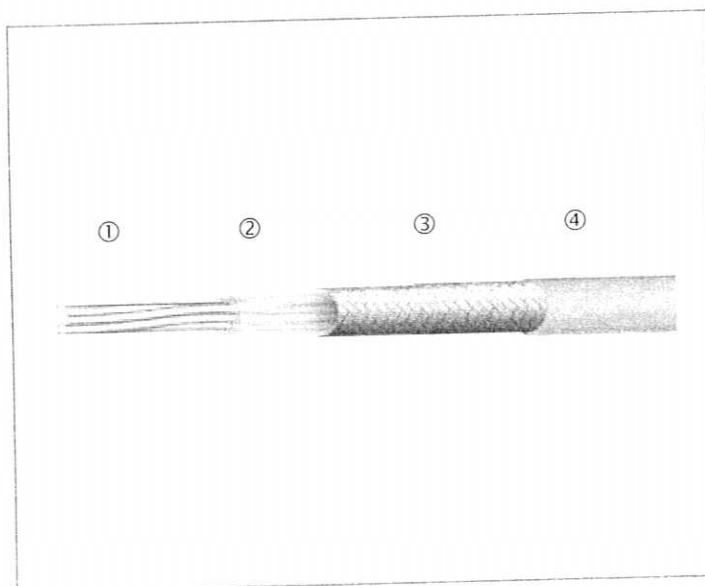
To: MIL C17

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Continuous working voltage: 3700 volts
- ☐ Maximal operating frequency: 3 GHz
- ☐ Good resistance to flame NFC 32070/C2 & CEI 332 -1&2
- ☐ Capacitance: <72.2 pF/m
- ☐ Relative velocity of propagation: 65.9 %
- ☐ Characteristic impedance at 200 MHz: 75 ρ 3 :
- ☐ Attenuation
 - at 200 MHz : 9.5 dB/100 m
 - at 400 MHz : 13 dB/100 m
 - at 3000 MHz : 45 dB/100m
- ☐ Dielectric withstanding at 50 Hz: 10 kV
- ☐ Nominal weight: 177 kg/km

Application

High frequency connections.



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ELECTRONIC



Filotex®

M17/29-RG059 (RG 59 B/U)
COAXIAL 75 Ω
85°C Polyethylene

PRODUCT REFERENCE

FILOTEx Ref:

RG 59 B/U (ET 373757)

CONSTRUCTION

1- CONDUCTOR:

Solid 1x0.58
Copper clad steel
= 0.58 mm

2- DIELECTRIC:

Solid Polyethylene
= 3.71 mm ρ 0.10

3- SCREEN:

Single braid
Bare copper

4- JACKET:

PVC
= 6.15 mm ρ 0.10

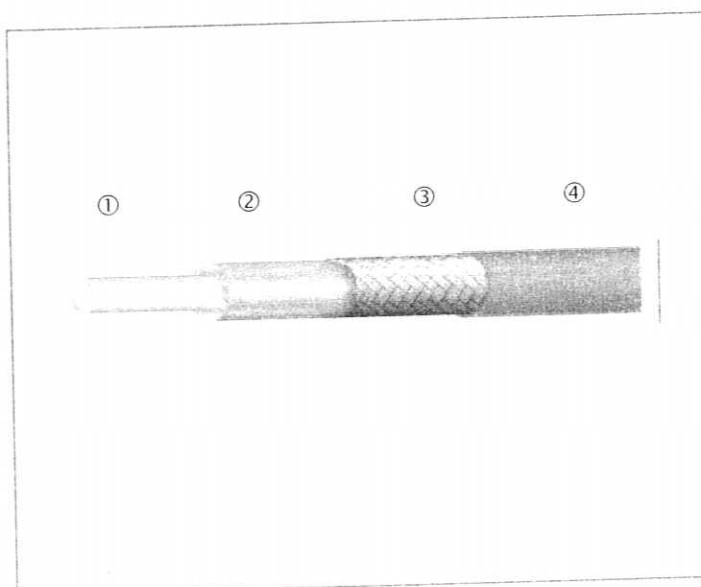
To: MIL C17

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Continuous working voltage: 1700 volts
- ☐ Maximal operating frequency: 1 GHz
- ☐ Good resistance to flame NFC 32070/C2 (CEI 332 -1&2)
- ☐ Capacitance: < 72.2 pF/m
- ☐ Relative velocity of propagation: 65.9 %
- ☐ Characteristic impedance at 200 MHz: 75 ρ 3 :
- ☐ Attenuation
 - at 200 MHz : 16 dB/100 m
 - at 400 MHz : 23 dB/100 m
 - at 3000 MHz : 73 dB/100m
- ☐ Dielectric withstanding at 50 Hz: 7 kV
- ☐ Nominal weight: 50 kg/km

Application

High frequency connections.



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Nexans

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ELECTRONIC



Filotex®

M17/94-RG179 (RG179BU)
M17/136-00001 (RG187AU)
COAXIAL 75 Ω
200°C/230°C PTFE

PRODUCT REFERENCE

FILOTEX Ref:

RG 179 B/U (ET 081997)
RG 187 A/U (ET 087244)

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.10

Silver plated copper clad steel
= 0.30 mm

2- DIELECTRIC:

Extruded PTFE

= 1.60 mm ρ 0.08

3- SCREEN:

Single braid

Silver plated copper

4- JACKET:

T° = 200°C FEP (RG179BU)

T° = 230°C PFA (RG187AU)

= 2.54 mm ρ 0.13

To: MIL C17

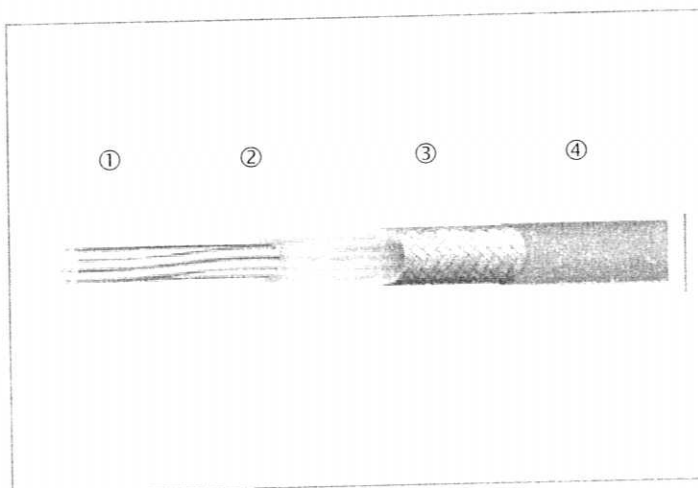
Main characteristics

- ☐ Operating temperature: - 90 to + 200°C (FEP JACKET)
- 90 to + 230°C (PFA JACKET)
- ☐ Maximal operating frequency: 3 GHz
- ☐ Continuous working voltage: 900 volts
- ☐ Good resistance to aircraft fluids.
- ☐ Good resistance to flame NFC 32070/C1 & C2 (CEI 332 -1)
- ☐ Capacitance: < 75.5 pF/m (FEP JACKET) / < 72.2 pF/m (PFA JACKET)
- ☐ Relative velocity of propagation: 69.5 %
- ☐ Characteristic impedance at 200 MHz: 75 ρ 3 :
- ☐ Attenuation
 - at 200 MHz : 40 dB/100 m
 - at 400 MHz : 56 dB/100 m
 - at 3000 MHz : 160 dB/100m
- ☐ Dielectric withstanding at 50 Hz: 2 kV
- ☐ Nominal weight: 16.9 kg/km

Application

High frequency connections operating at high temperature.

By their small dimensions, they are mainly designed for miniaturized connections, operating at high or low temperature.



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Nexans

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Filotex®

M17/30-RG062 (RG 62 A/U)
COAXIAL 93 Ω
85°C Polyethylene

PRODUCT REFERENCE

FILOTEX Ref:

RG 62 A/U (ET 373148)

CONSTRUCTION

1- CONDUCTOR:

Solid 1x0.64
 Copper clad steel
 = 0.64 mm

2- DIELECTRIC:

Semi-air-spaced polyethylene
 = 3.71 mm ρ 0.13

3- SCREEN:

Single braid
 Bare copper

4- JACKET:

PVC
 = 6.15 mm ρ 0.18

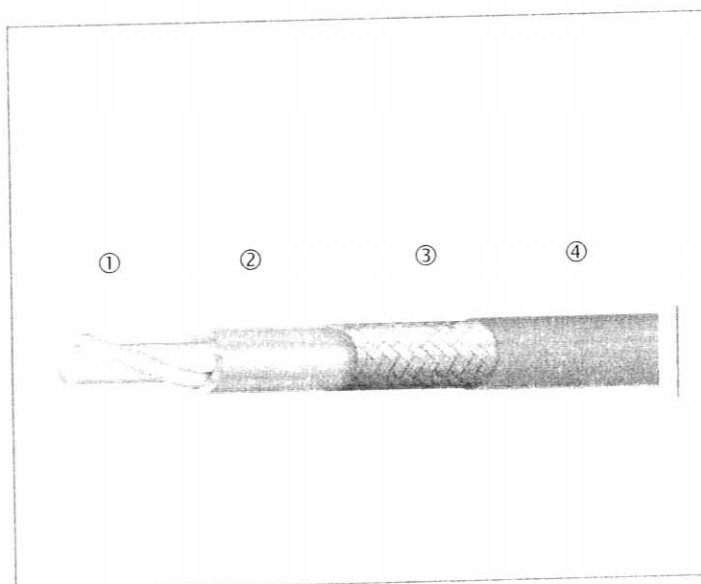
To: MIL C17

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Continuous working voltage: 750 volts
- ☐ Maximal operating frequency: 1 GHz
- ☐ Good resistance to flame NFC 32070/C2 (CEI 332 -1&2)
- ☐ Capacitance: <47.6 pF/m
- ☐ Relative velocity of propagation: 83 %
- ☐ Characteristic impedance at 200 MHz: 93 ρ 5 :
- ☐ Attenuation
 - at 200 MHz : 14 dB/100 m
 - at 400 MHz : 22 dB/100 m
 - at 3000 MHz : 100 dB/100m
- ☐ Dielectric withstanding at 50 Hz: 3 kV
- ☐ Nominal weight: 46 kg/km

Application

High frequency connections.



ELECTRONIC



Filotex®

M17/29-RG059 (RG 59 B/U)
COAXIAL 75 Ω
85°C Polyethylene

PRODUCT REFERENCE

FILOTEX Ref:

RG 59 B/U (ET 373757)

CONSTRUCTION

1- CONDUCTOR:

Solid 1x0.58
Copper clad steel
= 0.58 mm

2- DIELECTRIC:

Solid Polyethylene
= 3.71 mm ρ 0.10

3- SCREEN:

Single braid
Bare copper

4- JACKET:

PVC
= 6.15 mm ρ 0.10

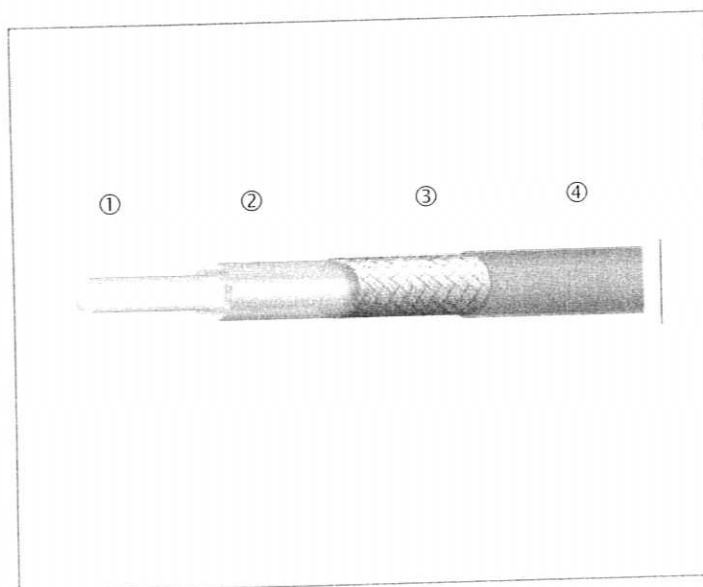
To: MIL C17

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Continuous working voltage: 1700 volts
- ☐ Maximal operating frequency: 1 GHz
- ☐ Good resistance to flame NFC 32070/C2 (CEI 332 -1&2)
- ☐ Capacitance: < 72.2 pF/m
- ☐ Relative velocity of propagation: 65.9 %
- ☐ Characteristic impedance at 200 MHz: 75 ρ 3 :
- ☐ Attenuation
 - at 200 MHz : 16 dB/100 m
 - at 400 MHz : 23 dB/100 m
 - at 3000 MHz : 73 dB/100m
- ☐ Dielectric withstanding at 50 Hz: 7 kV
- ☐ Nominal weight: 50 kg/km

Application

High frequency connections.



140 - 146 rue E. Delacroix / BP 1
F - 91211 Draveil cedex - FRANCE
Tel : + 33 1 69 83 78 00
Fax : + 33 1 69 42 05 70

Nexans

Issue 1 06/06/2003



Filotex®

KX 4 / RG 213 U
COAXIAL 50 Ω
85°C Polyethylene

PRODUCT REFERENCE

FILOTEX Ref:

KX 4 / RG 213 U
(ET 373099)

CONSTRUCTION

1- CONDUCTOR:

Stranded 7x0.75
 Bare copper
 = 2.25 mm

2- DIELECTRIC:

Solid Polyethylene
 = 7.25 mm ϕ 0.15

3- SCREEN:

Single braid
 Bare copper

4- JACKET:

PVC
 = 10.30 mm ϕ 0.20

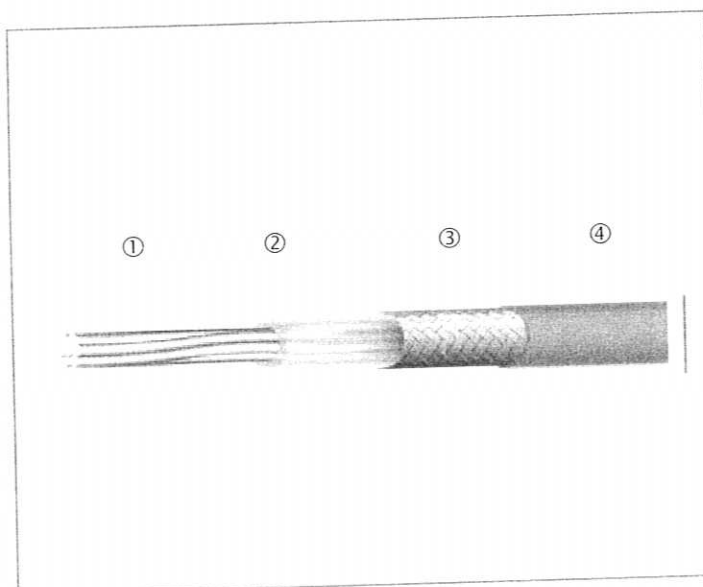
To: NF C93550, MIL C17

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Continuous working voltage: 3700 volts
- ☐ Maximal operating frequency: 3 GHz
- ☐ Good resistance to flame NFC 32070/C2 & CEI 332 -1&2
- ☐ Capacitance: 100 p 5 pF/m
- ☐ Relative velocity of propagation: 65.9 %
- ☐ Characteristic impedance at 200 MHz: 50 ϕ 2 :
- ☐ Attenuation
 - at 200 MHz : 9.5 dB/100 m
 - at 400 MHz : 14.5 dB/100 m
 - at 3000 MHz : 55 dB/100 m
- ☐ Dielectric withstanding at 50 Hz: 5 kV
- ☐ Nominal weight: 158 kg/km

Application

High frequency connections.





MULTICOAXIAL 26 X URM 43 CABLE 50 Ω

Filotex®

Main characteristics

- ☐ Operating temperature: - 40 to +85°C
- ☐ Flame resistance according to: CEI 332 -1
- ☐ Nominal capacitance: 108 pF/m
- ☐ Nominal propagation velocity : 65.9 %
- ☐ Characteristic impedance at 200 MHz: $50 \pm 2 \Omega$
- ☐ Attenuation at 200 MHz: ≤ 20.7 dB/100 m
- ☐ Test Voltage: 1500 V_{AC} / 1min
- ☐ DC kV : 21
- ☐ RF kV : 2,6 peak
- ☐ Pulse kV : 5,2 peak
- ☐ Minimum bending radius = 180 mm

PRODUCT REFERENCE

FILOTEX Ref: 2PH 102

CONSTRUCTION

1- CONDUCTOR:

Bare copper $\varnothing = 0.90$ mm

DIELECTRIC:

Solid Polyethylene

$\varnothing = 3.02$ mm

SCREEN:

Single braid bare copper

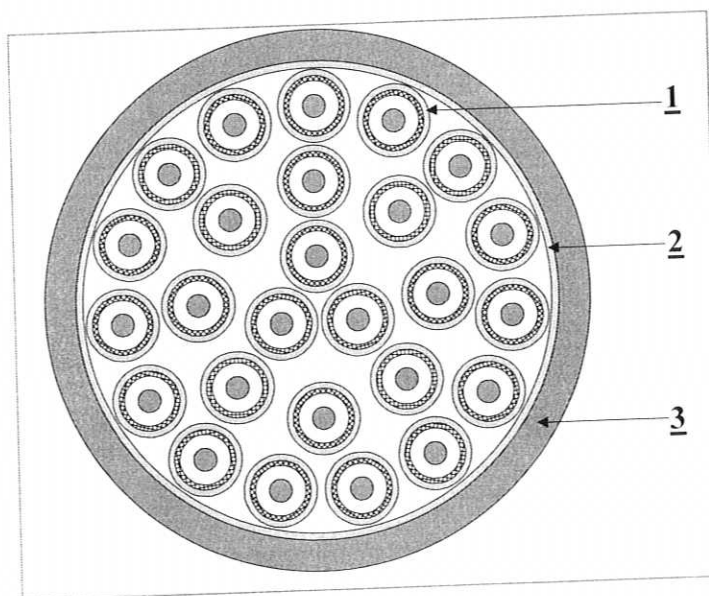
JACKET:

PVC

$\varnothing = 5.00$ mm

2- Polyester tape

3- PVC Jacket $\varnothing = 30.60$ mm



140 - 146 rue E. Delacroix / BP 1
F - 91211 Draveil cedex - FRANCE
Tel : + 33 1 69 83 78 00
Fax : + 33 1 69 42 05 70

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