Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION

83604 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information
please call

1-800-Belden1

Description:

20 AWG stranded (7x28) TC conductors, conductors cabled, planum, FEP insulation, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	20	7x28	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.1524

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.3556

Overall Cabling

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green

Overall Nominal Diameter:	4.521 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
Bulk Cable Weight:	53.575 Kg/Km
Max. Recommended Pulling Tension:	400.338 N
Min. Bend Radius (Install)/Minor Axis:	48.260 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
85.306

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
167.331

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
28.2166

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
15.0926

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
3 Amps per conductor @ 25°C

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83604 002100	30 MT	2.313 KG	RED	C	4#20 FEP SH FEP
83604 0021000	305 MT	14.515 KG	RED	C	4#20 FEP SH FEP
83604 002500	152 MT	7.258 KG	RED	C	4#20 FEP SH FEP

Notes:
C = CRATE REEL PUT-UP.

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