Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

83803 Multi-Conductor - Power-Limited Fire Protective, Control & Instrum Cable



For more Information please call

1-800-Belden1



General Description:

12 AWG stranded (7x20) TC conductors, conductors cabled, plenum, FEP insulation, Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

Physical Characteristics (Overall)	
Conductor	
AWG:	
# Conductors AWG Stranding Conductor Material 3 12 7x20 TC - Tinned Copper	
Total Number of Conductors:	3
	3
Insulation Insulation Material:	
Insulation Trade Name Insulation Material	Wall Thickness (mm)
Teflon® FEP - Fluorinated Ethylene Propyl	lene 0.4064
Outer Shield Outer Shield Material:	
Layer # Outer Shield Trade Name Type Outer Shield N	Material Coverage (%)
1 Beldfoil® Tape Aluminum Foil-	
2 Braid TC - Tinned Co	opper 85
Outer Jacket	
Outer Jacket Material: Outer Jacket Trade Name Outer Jacket Material	Nom. Wall Thickness (mm)
Teflon® FEP - Fluorinated Ethylene Pro	
Overall Cable	
Overall Cabling Color Code Chart:	
Number Color	
1 Black	
2 White 3 Red	
Overall Nominal Diameter:	8.204 mm
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	200°C
Bulk Cable Weight:	157.749 Kg/Km
Min. Bend Radius/Minor Axis:	82.550 mm
Applicable Specifications and Agency Complia	ance (Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMP, FPLP
NEC Articles:	760
CEC/C(UL) Specification:	СМР
EU Directive 2011/65/EU (ROHS II):	Yes
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
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Yes	CA Prop 65 (CJ for Wire & Cable):
Yes	MII Order #39 (China RoHS):
	ame Test
NFPA 262	UL Flame Test:
FT6	CSA Flame Test:
	enum/Non-Plenum
Yes	Plenum (Y/N):
	octrical Characteristics (Overall)
	ectrical Characteristics (Overall)
	om. Capacitance Conductor to Conductor:
	Capacitance (pF/m)
	104.992
	om. Capacitance Cond. to Other Conductor & Shield:
	Capacitance (pF/m) 180.455
	om. Conductor DC Resistance:
	DCR @ 20°C (Ohm/km)
	5.5777
	ax. Operating Voltage - UL:
	Voltage
	300 V RMS
	ax. Recommended Current:
	Current
	20 Amps per conductor @ 25°C

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83803 002100	100 FT	12.300 LB	RED	С	3#12 FEP SH FEP
83803 0021000	1,000 FT	111.000 LB	RED	С	3#12 FEP SH FEP
83803 002500	500 FT	56.500 LB	RED	С	3#12 FEP SH FEP

Notes: C = CRATE REEL PUT-UP

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