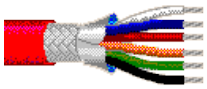
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

83806 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
6	12	7x20	TC - Tinned Copper

Total Number of Conductors:	6

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	.016

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 Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Teflon®	FEP - Fluorinated Ethylene Propylene	.017

Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue

Overall Nominal Diameter:	0.430 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
UL Temperature Rating:	200°C
Bulk Cable Weight:	197 lbs/1000 ft.
Max. Recommended Pulling Tension:	587 lbs.
Min. Bend Radius/Minor Axis:	4.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP, FPLP
NEC Articles:	760
CEC/C(UL) Specification:	CMP
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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes

Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
32

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
55

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.7

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
17 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
83806 002100	100 FT	21.400 LB	RED	C	6#12 FEP SH FEP
83806 0021000	1,000 FT	213.000 LB	RED	C	6#12 FEP SH FEP

Notes:
C = CRATE REEL PUT-UP.

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83806 002100