Part Number: 2133a

FOUNDATION Fieldbus, (20 pr) 16 AWG (7x24) TC, XLP/TPE, Foil Shld, 600V, TC

Product Description

Twenty 16 AWG pairs stranded (7x24) tinned copper, cross-linked polyolefin insulation, overall Beldfoil® shield (100% coverage), thermoplastic elastomer (TPE) jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Pairs
16	7x24	TC - Tinned Copper	20

Total Number of Conductors:	40

Insulation:

Material
XLP - Cross-linked Polyolefin

Color Chart 1:

Number	Color
1	Blue & Orange Numbered 1
2	Blue & Orange Numbered 2
3	Blue & Orange Numbered 3
4	Blue & Orange Numbered 4
5	Blue & Orange Numbered 5
6	Blue & Orange Numbered 6
7	Blue & Orange Numbered 7
8	Blue & Orange Numbered 8
9	Blue & Orange Numbered 9
10	Blue & Orange Numbered 10
11	Blue & Orange Numbered 11
12	Blue & Orange Numbered 12
13	Blue & Orange Numbered 13
14	Blue & Orange Numbered 14
15	Blue & Orange Numbered 15
16	Blue & Orange Numbered 16
17	Blue & Orange Numbered 17
18	Blue & Orange Numbered 18
19	Blue & Orange Numbered 19
20	Blue & Orange Numbered 20

Stranding:

Lay Length
0.091 mm

Innershield:

Type	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	18	7x26 mm
	TC - Tinned Copper				

Outershield 1:

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	16	7x24 mm

Outerjacket 1:

Material	Nominal Diameter	Ripcord
FR PVC - Flame Retardant Polyvinyl Chloride	1.469 in	Yes

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR
4.2 Ohm/1000ft

Capacitance:

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield
1.2 pF/ft	22 pF/ft

Other Electrical Characteristic 1:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
Other Electrical Characteristic 2:	31.25 KBits/sec

High Frequency (Nominal/Typical):

Nom. Insertion Loss
0.065 db/100ft

Delay:

Nominal Velocity of Propagation (VP) [%]
0.64 %

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Max./Min. Input Impedance (unFitted)
	0.091 db/100ft	100 Ohm
0.03125 MHz		
0.039 MHz		
0.039 MHz		

Current:

Element	Max. Recommended Current [A]
Per Conductor	7.2 Amps

Inductance:

Nominal Inductance
0.22 µH/ft

Voltage:

Description	UL Voltage Rating	Voltage Rating [V]
CSA CIC type TC	600 V RMS	600 V RMS

Use

Suitability - Oil Resistance:	Yes

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	1911 lbs

Safety

CSA Flammability:	FT4
ISO/IEC Flammability:	60332-3-24 (Category C)
UL Flammability:	UL1581 Vertical Tray

Temperature Range

Installation Temp Rating:	-25˚C
Operating Temp Range:	-25˚C Cold Impact -40˚C To +90˚C -55˚C Cold Bend
UL Temp Rating:	90˚C Wet/Dry

Mechanical Characteristics

Min Bend Radius/Minor Axis:	14.75 in

Part Number

Plenum (Y/N):	No

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CSA AWM Specification:	CSA Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
Other Specification:	Other Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor?s inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden?s knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.