



Part Number: 3078F

FOUNDATION Fieldbus, (1 pr) 22 AWG (7x30) TC, FHDPE/PVC, Foil Shld, CMG, CMX-Outdoor, PLTC-ER

Product Description

One 22 AWG pair stranded (7x30) tinned copper conductors, foam high density polyethylene (FHDPE) insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
22	7×30	TC - Tinned Copper	0.03 in	1
Total Nu	mber of Conductors	:	2	

Insulation:

Material

FHDPE - Foam High Density Polyethylene

Color Chart 1:

Number	Color
1	Blue & Orange

Stranding:

Lay Length	
4 in	

Outershield 1:

Туре	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28 mm

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.351 in

	BELDEN 3078F DATABUS(R) 1PR22 SHIELDED (UL) CM 75C E108998 OR PLC SUN RES OR C(UL) CM 75C
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Electrical Characteristics

Conductor DCR:

Individual Pair Nominal Shield DCR	Nominal Conductor DCR
3.3 Ohm/1000ft	17.1 Ohm/1000ft

Capacitance:

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield	Nom.Mutual Capacitance
0.46 pF/ft	16 pF/ft	8.5 pF/ft

	ISA/IEC SP50 Requirements: Impedance @ 250 kHz, 625 kHz, 1.25 MHz, and 3.125 MHz: 150 +/- 10% Ohms	
Other Electrical Characteristic 2:	1.0 and 2.5 MBits/sec	

High Frequency (Nominal/Typical):

Nom. Insertion Loss
0.18 db/100ft
0.26 db/100ft
0.34 db/100ft
0.55 db/100ft

Delay:

	Nominal Velocity of Propagation (VP) [%]	
-	78 %	1

High Freq:

Frequency [MHz]	Max./Min. Input Impedance (unFitted)
	150 Ohm
1 MHz	
0.25 MHz	
0.625 MHz	
1.25 MHz	
3.125 MHz	
0.625 MHz	
1.25 MHz	
3.125 MHz	

Current:

Element	Max. Recommended Current [A]	
Per Conductor	2.5 Amps	

Inductance:

Nominal Inductance	
0.3 μH/ft	

Voltage:

UL Voltage Rating	
300 V RMS	

Use

Max Recommended Pulling Tension:	32 lbs

Safety

UL Flammability:	UL1685 UL Loading
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Temperature Range

Operating Temp Range:	-40°C To +75°C
UL Temp Rating:	75°C

Mechanical Characteristics

Min Bend Radius/Minor Axis:	3.5 in

Part Number

Plenum (Y/N):	No
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Standards

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

History

Notes:	Tape around pair has shorting fold. CPE & LSOH Jacket optional.
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Product Variants

Part Number	Color	Put-Up Type	Length
3078F 0031000	ORANGE	Reel	1000 ft
3078F 0032500	ORANGE	Reel	2500 ft
3078F 003500	ORANGE	Reel	500 ft

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