



Part Number: 3077F

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

Product Description

One 22 AWG pair stranded (7x30) tinned copper conductors, polyolefin 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	7x30	TC - Tinned Copper	0.03 in	1
Total Number of Conductors:				2

Insulation:

Material
PO - Polyolefin

Color Chart 1:

Number	Color
1	Blue & Orange

Stranding:

Lay Length
1.5 in

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	20	7x28 mm

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.196 in
Print Legend:	BELDEN 3077F DATABUS(R) 31.25 KB/S E34972 2C22 SHIELDED (UL) 105C PLTC OR ITC SUN RES OR CM OR C(UL) CM (2 FT. 7 DIGIT SEQUENTIAL NUMBER) FEET

Electrical Characteristics

Conductor DCR:

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

Capacitance:

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance
1.2 pF/ft	44 pF/ft	23.5 pF/ft
Other Electrical Characteristic 2:	31.25 KBits/sec	

High Frequency (Nominal/Typical):

Nom. Insertion Loss
0.14 db/100ft

Delay:

Nominal Velocity of Propagation (VP) [%]
66 %

High Freq:

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

Current:

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

Inductance:

Nominal Inductance

0.2 μ H/ft

Voltage:

UL Voltage Rating

300 V RMS

Use

Max Recommended Pulling Tension:

27 lbs

Safety

UL Flammability:

UL1685 UL Loading

Temperature Range

Operating Temp Range:

-30°C To +105°C

UL Temp Rating:

105°C

Mechanical Characteristics

Min Bend Radius/Minor Axis:

2.2 in

Part Number

Plenum (Y/N):

No

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)

NEC Articles:

NEC Articles

NEC/(UL) Specification:

NEC/(UL) Specification

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.

Product Variants

Part Number	Color	Put-Up Type	Length
3077F 0031000	ORANGE	Reel	1000 ft
3077F 003500	ORANGE	Reel	500 ft
3077F			

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