# **Detailed Specifications & Technical Data**



METRIC MEASUREMENT VERSION



### 3077F Multi-Conductor - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

For more Information please call

1-800-Belden1



### **Description:**

22 AWG stranded (7x30) tinned copper conductors, polyolefin insulation, Beldfoil® shield (100% coverage), tinned copper drain wire, PVC jacket.

Physical Characteristic	cs (Overall)		
Conductor AWG:			
	Conductor Material Dia. (mm)		
	TC - Tinned Copper 0.762		
Total Number of Condu		2	
		2	
Insulation Insulation Material:			
Insulation Material			
PO - Polyolefin			
Outer Shield			
Outer Shield Material:			
	e Type Outer Shield Material	Coverage (%)	
Beldfoil®	Tape Aluminum Foil-Polyeste	er Tape 100	
Outer Shield Drain Wire	-		
AWG Stranding Drain Wi 20 7x28 TC - Tinr	Vire Conductor Material		
20 7220 10-111			
Outer Jacket Outer Jacket Material:			
Outer Jacket Material			
PVC - Polyvinyl Chloride			
Overall Cable			
Overall Nominal Diame	eter:	4.978 mm	
Pair			
Pair Color Code Chart:			
Number Color			
1 Blue & Orange			
Pair Lay Length & Direct	tion:		
Lay Length (mm)			
38.1			
Mechanical Characteri	istics (Overall)		
Operating Temperature	• •	-30°C To +105°C	

Operating Temperature Range:	-30°C To +105°C			
UL Temperature Rating:	105°C			
Bulk Cable Weight:	26.788 Kg/Km			
Max. Recommended Pulling Tension:	120.101 N			
Min. Bend Radius/Minor Axis:	55.880 mm			

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pplicable Standards & Environmental Progr	
NEC/(UL) Specification:	CM, ITC, PLTC
NEC Articles:	725, 727, 800
CEC/C(UL) Specification:	СМ
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):	01/01/2004
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
lame Test	
UL Flame Test:	UL1685 UL Loading
lenum/Non-Plenum	
Plenum (Y/N):	No
naveraged Impedance: Description Freq. (MHz) Start Freq. (MHz) Stop Freq. ( 0.03125	MHz) Impedance (Ohm)
naveraged Impedance:	
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Description Freq. (MHz) Start Freq. (MHz) Stop Freq. ( .03125 om. Inductance: Inductance (µH/m) 0.6562 om. Capacitance Conductor to Shield: Capacitance (pF/m) 144.364 om. Mutual Capacitance: Capacitance (pF/m) 77.1035 aximum Capacitance Unbalance: Capacitance (pF/m) 3.9372 ominal Velocity of Propagation: VP (%) 66 om. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 56.1051 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:	100 37.403 Ohm/km

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								_
	Other E	Electrical C	haracteristic 2:		31.25 KBits/sec			
	Per Condu	uctor 2.5 Am	ips					
	Descriptio							
Ma	ax. Recon	nmended (	Current:					
	Voltage 300 V RM	S						
Ma	ax. Opera	ting Voltag	ge - UL:					
	0.498712	0.039	0.499	]				

#### Notes (Overall)

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

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3077F 0031000	305 MT	10.433 KG	ORANGE	CN	TWPR #22 PP FS PVC
3077F 003500	152 MT	4.990 KG	ORANGE	CN	TWPR #22 PP FS PVC

Notes:

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Revision Number: 1 Revision Date: 03-09-2011

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