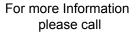


3079E Multi-Conductor - DataBus® ISA/SP-50 PROFIBUS Cable



1-800-Belden1



General Description:

22 AWG stranded (7x30) bare copper conductors, FRFPE insulation, Beldfoil® shield (100% coverage) plus a tinned copper braid shield (65% coverage), PVC jacket.

·											
-	hysical Characteristics (Overall)										
	nducto	or									
A	WG:	ANNO CH		w Motovial	1						
	# Pairs	22 7x3	Dinding Conductor BC - Bare								
	Ľ	22 17.5		Сорры							
_	Total N	Number of	Conductors:		2						
	ulation										
In		on Materia									
		tion Materia - Flame Re		vethvlene							
	FRFPE - Flame Retardant Foam Polyethylene										
	Outer Shield Outer Shield Material:										
0				Type Out	er Shield Material	Coverage (%)					
	1	Beldfoil®			ninum Foil-Polyester Tape		1				
	2			Braid TC	- Tinned Copper	65					
~1	Duter Jacket										
	PVC - Polyvinyl Chloride Overall Cable Overall Nominal Diameter: 8.001 mm										
	Pair Pair Color Code Chart:										
		er Color									
	1	Red & Gr	een								
Pa	air Lay	Length &	Direction:								
		ength (mm)									
	69.85										
Nec	lechanical Characteristics (Overall)										
	Operating Temperature Range:				-30°C To +7	′5°C					
-	UL Temperature Rating:				60°C						
-	Bulk C	able Weig	ıht:		58.040 Kg/k	٢m					
-	Max. R	Recommer	ded Pulling Te	ension:	222.410 N						
-	Min. B	end Radiı	s/Minor Axis:		81.280 mm						
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Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

3079E Multi-Conductor - DataBus® ISA/SP-50 PROFIBUS Cable

NEC/(UL) Specification:	PLTC					
CEC/C(UL) Specification:	CMG					
AWM Specification:	UL Style 20201 (600 V 75°C)					
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 01/01/2004					
EU RoHS Compliance Date (mm/dd/yyyy):						
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					
Other Specification:	ISA/SP-50					
Flame Test						
UL Flame Test:	UL1685 FT4 Loading					
CSA Flame Test:	FT4					
Suitability						
Sunlight Resistance:	Yes					
Plenum/Non-Plenum						
Plenum (Y/N):	No					
Fitted Impedance:	(MHz) Impedance (Ohm)					
Fitted Impedance: Description Freq. (MHz) Start Freq. (MHz) Stop Freq 3 20	. (MHz) Impedance (Ohm) 150					
Description Freq. (MHz) Start Freq. (MHz) Stop Freq.						
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 20						
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 3 20 Nom. Inductance: Inductance (µH/m) 1						
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 3 20 Jom. Inductance: Inductance (µH/m) 0.876027 Jom. Mutual Capacitance: Capacitance (pF/m) 27.8885 20						
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 20 Nom. Inductance: 1 20 Inductance (µH/m) 0.876027 0.876027 Nom. Mutual Capacitance: Capacitance (pF/m) 27.8885 Vominal Velocity of Propagation: VP (%) 78						
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 20 Nom. Inductance: 20 Inductance (µH/m) 0.876027 Nom. Mutual Capacitance: Capacitance (pF/m) 27.8885 27 Nominal Velocity of Propagation: VP (%) 78 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km)	150					
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 20 Nom. Inductance: Inductance (µH/m) 0.876027 Nom. Mutual Capacitance: Capacitance (pF/m) 27.8885 Nominal Velocity of Propagation: YP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 52.496 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: Max. Attenuation:	150					
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 20 Nom. Inductance: 20 Inductance (µH/m) 0.876027 Nom. Mutual Capacitance: Capacitance (pF/m) 27.8885 20 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 52.496 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: Max. Attenuation: Freq. (MHz) Attenuation (dB/100 m) 0.100 0.510 1.000 1.570	150					
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 20 Nom. Inductance: Inductance (µH/m) 0.876027 Nom. Mutual Capacitance: Capacitance (pF/m) 27.8885 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 52.496 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: Max. Attenuation: Freq. (MHz) Attenuation (dB/100 m) 0.100 0.510 1.000 4.800	150					
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 20 Nom. Inductance: Inductance (µH/m) 0.876027 Nom. Mutual Capacitance: Capacitance (pF/m) 27.8885 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 52.496 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: Max. Attenuation: Freq. (MHz) Attenuation (dB/100 m) 0.100 0.510 1.000 4.800 Max. Operating Voltage - UL: Voltage Description 300 V RMS CMG	150					
Description Freq. (MHz) Start Freq. (MHz) Stop Freq. 3 20 Nom. Inductance: Inductance (µH/m) 20 0.876027 0.876027 Nom. Mutual Capacitance: Capacitance (pF/m) 27.8885 0 Nominal Velocity of Propagation: YP (%) 78 0 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 52.496 0 Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: Max. Attenuation: Freq. (MHz) Attenuation (dB/100 m) 0.510 0.000 4.800 Max. Operating Voltage - UL: Voltage Voltage Description	150					

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

3079E Multi-Conductor - DataBus® ISA/SP-50 PROFIBUS Cable

Per Conductor 2.3 Amps

Other Electrical Characteristic 1:

Capacitance Unbalance @ 1 kHz: Less than 1000 pF/km

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3079E B021000	1,000 FT	44.000 LB	PURPLE	С	2 #22 FRFPE/FRPE SH PVC
3079E B021640	1,640 FT	73.800 LB	PURPLE	С	2 #22 FRFPE/FRPE SH PVC
3079E B023280	3,280 FT	144.320 LB	PURPLE	С	2 #22 FRFPE/FRPE SH PVC
3079E B025000	5,000 FT	220.000 LB	PURPLE	CZ	2 #22 FRFPE/FRPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 1 Revision Date: 08-22-2013

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