Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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



For more Information please call

1-800-Belden1



Description:

22 AWG solid bare copper conductors, FHDPE insulation, Beldfoil® (100% coverage) plus a tinned copper braid shield (65% coverage), sunlight resistant PVC jacket.

		-		÷l.	
hysical Chara	cteristics (Ove	erall)			
Conductor					
AWG:	Stronding Conducto	Motorial Dia (ma	-		
	Stranding Conducto Solid BC - Bare		n)		
		0.0004			
Total Number	of Conductors:		2		
nsulation					
Insulation Mate	-				
Insulation Mate					
FRFPE - Flame	Retardant Foam Pol	yetnylene			
Duter Shield					
Outer Shield Ma	aterial:				
-	Shield Trade Name			Coverage (%)	
1 Beldfo		Tape Aluminum Fo	, ,	100	
2		Braid TC - Tinned	Copper	65	
Overall Cable Overall Nomin	nal Diameter:		8.001 mm		
Pair					
Pair Color Code					
Number Color					
	Green				
Pair Lay Length					
Lay Length (m	m)				
69.85					
echanical Ch	aracteristics (Overall)			
	nperature Range:	•	-30°C To +7	5°C	
UL Temperatu	ure Rating:		60°C		
Bulk Cable W	eight:		77.386 Kg/k	ím	
Max. Recomm	nended Pulling Te	ension:	222.410 N		
Min. Bend Ra	dius/Minor Axis:		81.280 mm		

Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs

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NEC/(UL) Specification:	CMG, PLTC				
CEC/C(UL) Specification:	CMG				
AWM Specification:	UL Style 20201 (600 V 75°C)				
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				
Flame Test					
UL Flame Test:	UL1685 FT4 Loading				
CSA Flame Test:	FT4				
Plenum/Non-Plenum					
Plenum (Y/N):	No				

Electrical Characteristics (Overall)

Fitted Impedance:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Impedance (Ohm)
		3	20	150

Nom. Inductance:

Inductance (µH/m)

0.925242

Nom. Mutual Capacitance:

Capacitance (pF/m) 27.8885

Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

52.496

Ind. Pair Nominal Shield DC Resistance @ 20 12.796 Ohm/km Deg. C:

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
0.200	0.886
4.000	2.198
16.000	4.495

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 m)
0.200	1.100
4.000	2.650
16.000	5.400

Max. Operating Voltage - UL:

Voltage	Description	
300 V RMS		
600 V RMS	AWM	

Max. Recommended Current:

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Description Current

Per Conductor 2.3 Amps

Other Electrical Characteristic 1:

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

Notes (Overall)

Notes: Siemens Sinec L2 Cable. For CPE jacketed version order Part No. YR45047. For LS0H (FRNC) jacketed version, order Part No. YR44731.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
3079A 0071000	305 MT	25.401 KG	VIOLET	С	1 PR #22 FRFPE FRPE SH PVC
3079A 0072000	610 MT	50.803 KG	VIOLET	С	1 PR #22 FRFPE FRPE SH PVC
3079A 0073600	1,097 MT	91.445 KG	VIOLET	С	1 PR #22 FRFPE FRPE SH PVC
3079A 0075000	1,524 MT	129.274 KG	VIOLET		1 PR #22 FRFPE FRPE SH PVC
3079A 0601000	305 MT	25.401 KG	CHROME	С	1 PR #22 FRFPE FRPE SH PVC
3079A 0602000	610 MT	50.803 KG	CHROME	С	1 PR #22 FRFPE FRPE SH PVC
3079A 0603600	1,097 MT	91.445 KG	CHROME	С	1 PR #22 FRFPE FRPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 01-14-2010

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