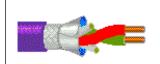


3079A Paired - DataBus® ISA/SP-50 PROFIBUS Cable





For more information please call 1-800-Belden1

See Put-ups and Colors

Description:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1	
Total Number of Conductors	2	
AWG	22	
Stranding	Solid	
Conductor Diameter	.026 in.	
Conductor Material	BC - Bare Copper	

INSULATION:

Insulation Material FRFPE - Flame Retardant Foam Polyethylene

Lay Length 2.75 in.

Pair Color Code Chart:

Number	Color
1	Red & Green

OUTER SHIELD:

Outer Shield Material Trade Name

Beldfoil®

Outer Shield Type

Tape/Braid

Outer Shield Material:

Layer Number	Material Trade Name	Туре	Material	% Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

Outer Shield %Coverage 100 %

OUTER JACKET:

Outer Jacket Material PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .315 in.

MECHANICAL CHARACTERISTICS:



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Operating Temperature Range	-30°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	45 lbs/1000 ft.
Max. Recommended Pulling Tension	50 lbs.
Min. Bend Radius (Install)	3.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	PLTC, CMG
CEC/C(UL) Specification	CMG
AWM Specification	UL Style 20201 (600 V 75°C)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

FLAME TEST:

UL Flame Test UL1685 FT4 Loading CSA Flame Test FT4

ELECTRICAL CHARACTERISTICS:

Fitted Impedance:

Description Fi	requency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Fitted Impedance (Ohms)	
		3	20	150	
Nom. Inductance		.282 μH/ft			
Nom. Mutual Capacitance @ 1 KHz		8.5 pF/ft			
Nominal Velocity of Propagation		78 %			
Nom. Conductor DC Resistance @ 20 Deg. C		16.0 Ohms/1000 ft			
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C		3.9 Ohms/1000 ft			
Nom. Attenuation (dB/100 ft):	:				

Description	Frequency (MHz)	Start Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	.2		.27
	4.0		.67
	16.0		1.37

Max. Attenuation (dB/100 m):

Description	Frequency (MHz)	Start Frequency (MHz)	Max. Attenuation (dB/100 m)
	.20		.9
	4.0		2.2
	16.0		4.5

Max. Operating Voltage - UL:



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UL Voltage	Description
300V	CMG
600V	AWM

Max. Recommended Current:

Description	Max. Recommended Current	
Per Conductor	2.3 Amps	

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

NOTES:

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	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3079A 0071000	1 PR #22 FRFPE FRPE SH PVC	1000	56	VIOLET	С
3079A 0072000	1 PR #22 FRFPE FRPE SH PVC	2000	112	VIOLET	С
3079A 0073600	1 PR #22 FRFPE FRPE SH PVC	3600	201.6	VIOLET	С
3079A 0601000	1 PR#22FRFPEFRPES HPVC	1000	56	CHROME	С
3079A 0602000	1 PR#22FRFPEFRPES HPVC	2000	112	CHROME	С
3079A 0603600	1 PR#22FRFPEFRPES HPVC	3600	201.6	CHROME	С

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 02-22-2007

Detailed Specifications & Technical Data



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