



3079A Paired - DataBus®/Profibus

	<p>Metric Version For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
--	---

Description:

Profibus DP, 22 AWG solid bare copper, flame retardant foamed polyethylene insulation, Beldfoil® + 65% tinned copper braid shield (100% shield coverage), PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	22
Stranding	Solid
Conductor Diameter	0.66 mm
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	FRFPE - Flame Retardant Foam Polyethylene
Lay Length	6.985 cm

Pair Color Code Chart :

Number	Color
1	Red & Green

INNER SHIELD:

Inner Shield Type	Tape/Braid
-------------------	------------

Inner Shield Material :

Layer Number/Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (mm)	Conductor Material
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100			
2		Braid	TC - Tinned Copper	65			

OUTER SHIELD:

Outer Shield Material	Unshielded
-----------------------	------------

OUTER JACKET:



3079A Paired - DataBus®/Profibus

Outer Jacket Material	PVC - Polyvinyl Chloride
-----------------------	--------------------------

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	8.001 mm
--------------------------	----------

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +75°C
Non-UL Temperature Rating	75°C
Bulk Cable Weight	66.969 Kg/Km
Max. Recommended Pulling Tension	222.41 N
Min. Bend Radius (Install)	88.9 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	PLTC, CMG
CEC/C(UL) Specification	CMG

FLAME TEST:

UL Flame Test	UL1581 Vertical Tray
CSA Flame Test	FT4

ELECTRICAL CHARACTERISTICS:

Fitted Impedance :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Fitted Impedance (Ohms)
		3	20	150

Nom. Mutual Capacitance @ 1 KHz	27.888 pF/m
Nominal Velocity of Propagation	78 %
Nom. Conductor DC Resistance @ 20 Deg. C	52.496 Ohms/km
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	12.796 Ohms/km

Nom. Attenuation (dB/100 ft) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	0.2			0.886
	4			2.198
	16			4.495
	100			12.304
	300			21.392

Max. Attenuation (dB/100 m) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 m)
	0.2			0.9
	4			2.2
	16			4.5



3079A Paired - DataBus®/Profibus

Max. Operating Voltage - Other 300 V RMS

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.

Notes (Cont'd.) 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 (M)	Ship Weight (kgs.)	Jacket Color	Notes
3079A 0071000	1 PR #22 FRFPE FRPE SH PVC	304.8	22.246	VIOLET	C N
3079A 0072000	1 PR #22 FRFPE FRPE SH PVC	609.6	45.4	VIOLET	C N
3079A 0073600	1 PR #22 FRFPE FRPE SH PVC	1097.28	81.72	VIOLET	C N
3079A 0601000	1 PR#22FRFPEFRPES HPVC	304.8	22.246	CHROME	C N
3079A 0602000	1 PR#22FRFPEFRPES HPVC	609.6	45.4	CHROME	C N
3079A 0603600	1 PR#22FRFPEFRPES HPVC	1097.28	80.086	CHROME	C N

C = CRATE REEL PUT-UP.

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

Revision Number: 1 Revision Date: 06-09-2004

© 2003 Belden Wire & Cable Company
All Rights Reserved.

Although Belden Electronics Division ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale.