

3078F Paired - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

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

Description:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	1
Total Number of Conductors	2
AWG	22
Stranding	7x30
Conductor Diameter	.030 in.
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	FHDPE - Foam High Density Polyethylene
Lay Length	4.0 in.

Pair Color Code Chart :

Number	Color
1	Blue & Orange

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil-Polyester Tape
Outer Shield % Coverage	100 %

OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG	20
Outer Shield Drain Wire Stranding	7x28
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER JACKET:

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

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.351 in.
--------------------------	----------

3078F Paired - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-40°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	40 lbs/1000 ft.
Max. Recommended Pulling Tension	32 lbs.
Min. Bend Radius (Install)	3.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	PLTC CM ITC
CEC/C(UL) Specification	CM
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 UL Loading
---------------	-------------------

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
--------------	---

ELECTRICAL CHARACTERISTICS:

Unaveraged Impedance :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Unaveraged Impedance (Ohms)
	1.0			150

Nom. Inductance	.30 µH/ft
Nom. Capacitance Conductor to Shield @ 1 KHz	16.0 pF/ft
Nom. Mutual Capacitance @ 1 KHz	8.5 pF/ft
Maximum Capacitance Unbalance @ 1 KHz	.46 pF/ft
Nominal Velocity of Propagation	78 %
Nom. Conductor DC Resistance @ 20 Deg. C	17.1 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	3.3 Ohms/1000 ft

Nom. Attenuation (dB/100 ft) :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	.25			.18
	.625			.26
	1.25			.34
	3.125			.55

Max. Attenuation (dB/100 ft.) :

3078F Paired - DataBus® ISA/SP-50 FOUNDATION Fieldbus Cable

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Max. Attenuation (dB/100 ft.)
	.625			.305
	1.25			.396
	3.125			.610

Max. Operating Voltage - UL 300 V RMS

Max. Recommended Current :

Description	Max. Recommended Current
Per Conductor	2.5 Amps

Other Electrical Characteristic 1 ISA/IEC SP50 Requirements: Impedance @ 250 kHz, 625 kHz, 1.25 MHz, and 3.125 MHz: 150 +/- 10% Ohms

Other Electrical Characteristic 2 1.0 and 2.5 MBits/sec

NOTES:

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

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
3078F 0031000	#22 PR FPE/LDPE FS PVC	1000	47	ORANGE	C
3078F 0032500	#22 PR FPE/LDPE FS PVC	2500	122.5	ORANGE	C
3078F 003500	#22 PR FPE/LDPE FS PVC	500	24.5	ORANGE	C

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-10-2006

© Copyright 2006 Belden, Inc
All Rights Reserved.

Although Belden ("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.

Belden believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs.(San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003);Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory. EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); And EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.