Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



89842 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable



For more Information please call

1-800-Belden1



General Description:

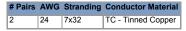
24 AWG stranded (7x32) tinned copper conductors, twisted pairs, foam FEP insulation, overall 100% Beldfoil® shield, 24 AWG stranded tinned copper drain wire, overall tinned copper braid shield (90% coverage), FEP jacket.

4

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FFEP - Foam Fluorinated Ethylene Propylene	0.584

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name Type Outer Shield Material		Coverage (%)	
1	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material				
24	7x32	TC - Tinned Copper				

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.356

Overall Cable

Overall Nominal Diameter: 7.747 mm

Pair

Pair Color Code Chart:

Number	Color		
1	White/Blue & Blue/White		
2	White/Orange & Orange/White		

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +150°C
Bulk Cable Weight:	65.481 Kg/Km
Max. Recommended Pulling Tension:	302.478 N
Min. Bend Radius/Minor Axis:	82.550 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes

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	EU Directive 2003/11/EC (BFR):	Yes
	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes
Fla	me Test	
	UL Flame Test:	NFPA 262
	CSA Flame Test:	FT6
Ple	num/Non-Plenum	
	Plenum (Y/N):	Yes
	Non-Plenum Number:	9842

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 120

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 39.372

Nom. Capacitance Cond. to Other Conductor & Shield:

Nominal Velocity of Propagation:

VP (%) 76

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 10.1711

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current 4 Amps per conductor @ 25°C

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89842 0021000	1,000 FT	49.000 LB	RED	С	2 PR #24 FFEPR SH FEP
89842 002500	500 FT	25.500 LB	RED	С	2 PR #24 FFEPR SH FEP

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-10-2012

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