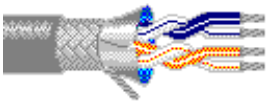
Detailed Specifications & Technical Data

BELDENCable

9842 Paired - Low Capacitance Computer Cable for EIA RS-485 Applications



Metric Version

For more information please call

1-800-Belden1

See Put-ups and Colors

Color Code Chart : No. 5 for Paired Cables (Western Electric Standard).pdf

Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, PVC jacket

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	2
Total Number of Conductors	4
AWG	24
Stranding	7x32
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PE - Polyethylene

Lay Length :

Lay Length (cm)	Direction	Twists/ft (twist/m)
2.54	Left Hand Lay	39.372

Twists/ft.	12

Pair Color Code Chart :

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

OUTER SHIELD:

Outer Shield Material Trade Name	Beldfoil®
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

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OUTER SHIELD DRAIN WIRE :	
Outer Shield Drain Wire AWG	24
Outer Shield Drain Wire Stranding	7x32
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper
OUTER JACKET:	
Outer Jacket Material	PVC - Polyvinyl Chloride
OVERALL NOMINAL DIAMETER:	
Overall Nominal Diameter	8.636 mm
MECHANICAL CHARACTERISTICS:	
Operating Temperature Range	-30°C To +80°C
UL Temperature Rating	80°C
Bulk Cable Weight	92.268 Kg/Km
Max. Recommended Pulling Tension	386.993 N
Min. Bend Radius (Install)	88.9 mm
APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:	
APPLICABLE STANDARDS:	
NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2919 (30 V 80°C)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
PLENUM/NON-PLENUM:	
Plenum (Y/N)	N
Plenum Number	82842
ELECTRICAL CHARACTERISTICS:	
Nom. Characteristic Impedance	120 Ohms
Nom. Capacitance Conductor to Conductor @ 1 KHz	41.997 pF/m
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	75.463 pF/m
Nominal Velocity of Propagation	66 %
Nominal Delay	5.25 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	78.744 Ohms/km
Nominal Outer Shield DC Resistance @ 20 Deg. C	7.218 Ohms/km
Nom. Attenuation (dB/100 ft)	1.969 (@ 1 MHz) dB/100m
Max. Operating Voltage - UL	300 V RMS
Max. Recommended Current	2.1 Amps per conductor @ 25°C

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PUT-UPS AND COLORS:

Item	Description	Put-Up (M)	Ship Weight (kgs.)	Jacket Color	Notes
9842 060100	2 PR #24 PE SH PVC	30.48	2.633	CHROME	
9842 0601000	2 PR #24 PE SH PVC	304.8	25.878	CHROME	C
9842 060500	2 PR #24 PE SH PVC	152.4	13.393	CHROME	C

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 07-21-2005