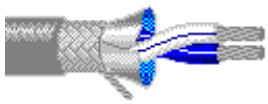
Detailed Specifications & Technical Data

BELDENCable

9841 Paired - Low Capacitance Computer Cable for EIA RS-485 Applications



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	1
Total Number of Conductors	2
AWG	24
Stranding	7x32
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PE - Polyethylene

Lay Length :

Lay Length (in.)	Direction	Twists/ft (twist/ft)
2.5	Left Hand Lay	4.8

Twists/ft.	4.8
Pair Color Code Chart	White/Blue and Blue/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

OUTER SHIELD DRAIN WIRE :

Outer Shield Drain Wire AWG	24

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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	.232 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-30°C To +80°C
UL Temperature Rating	80°C
Bulk Cable Weight	36 lbs/1000 ft.
Max. Recommended Pulling Tension	72.3 lbs.
Min. Bend Radius (Install)	2.5 in.

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	82841, 89841

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	120 Ohms
Nom. Capacitance Conductor to Conductor @ 1 KHz	12.8 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	23 pF/ft
Nominal Velocity of Propagation	66 %
Nominal Delay	1.6 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	24 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg. C	3.4 Ohms/1000 ft
Nom. Attenuation (dB/100 ft)	0.6 (@ 1 MHz) dB/100 ft.
Max. Operating Voltage - UL	300 V RMS, 30 V RMS (UL AWM Style 2919)
Max. Recommended Current	2.1 Amps per conductor @ 25°C

PUT-UPS AND COLORS:

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Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9841 060100	1 PR #24 PE SH PVC	100	4.3	CHROME	
9841 0601000	1 PR #24 PE SH PVC	1000	40	CHROME	C
9841 060500	1 PR #24 PE SH PVC	500	20	CHROME	C

C = CRATE REEL PUT-UP.

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