Detailed Specifications & Technical Data

9844 Paired - Low Capacitance EIA RS-485

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) tinned copper conductors, twisted pairs, polyethylene insulated, overall 100% Beldfoil® shield plus a 90% tinned copper braid shield, 24 AWG (7x32) tinned copper drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	7x32
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PE - Polyethylene

Lay Length :

Lay Length (in.)	Direction	Twists/ft (twist/ft)
1.0	Left Hand Lay	12

Twists/ft.	12

Pair Color Code Chart :

Number	Color	Number	Color
1	White/Blue & Blue/White	3	White/Green & Green/White
2	White/Orange & Orange/White	4	White/Brown & Brown/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	.390 in.
MECHANICAL CHARACTERISTICS:	
Operating Temperature Range	-30°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 2919)
Bulk Cable Weight	81.7 lbs/1000 ft.
Max. Recommended Pulling Tension	110 lbs.
Min. Bend Radius (Install)	4 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)
PLENUM/NON-PLENUM:	
Plenum (Y/N)	N
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	2.1 Ohms/1000 ft
Nom. Attenuation (dB/100 ft)	0.6 (@ 1 MHz) dB/100 ft.
Max. Operating Voltage - UL	300 V RMS (Ul AWM Style 2919)
Max. Recommended Current	1.54 Amps per conductor @ 25°C

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
9844 0601000	4 PR #24 PE SH PVC	1000	83	CHROME	C

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9844 060500	4 PR #24 PE SH PVC	500	43	CHROME	C

C = CRATE REEL PUT-UP.

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