Detailed Specifications & Technical Data

BELDENCable

8777 Paired - Shielded Twisted Pair Cable

For more information please call

1-800-Belden1

See Put-ups and Colors

Related Documents : No. 3 for Paired Cables (Belden Standard).pdf

Description:

22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, twisted pairs individually Beldfoil® Shielded (100% coverage), 22 AWG stranded tinned copper drain wire, PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	3
Total Number of Conductors	6
AWG	22
Stranding	7x30
Conductor Diameter	.030 in.
Conductor Material	TC - Tinned Copper

INSULATION:

Insulation Material	PP - Polypropylene
Insulation Diameter	.050 in.
Lay Length	1.75 in.
Twists/ft.	6.85

Pair Color Code Chart :

Number	Color	Number	Color
1	Black & Red	3	Black & Green
2	Black & White		

INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil® (Z-Fold®)
Inner Shield Type	Tape
Inner Shield Material :	

8777 Paired - Shielded Twisted Pair Cable

Layer Number/Description	Material Trade Name	Type	Material	% Coverage (%)	Stranding	Diameter (in.)	Conductor Material
1	Beldfoil®	Tape	Aluminum-Polyester	100			
2		Tape	Polyester	100			

Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	22
Inner Shield Drain Wire Stranding	19x34
Inner Shield Drain Wire Conductor Material	TC - Tinned Copper

OUTER SHIELD:

Outer Shield Material	Unshielded

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.273 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 2919)
Bulk Cable Weight	40.8 lbs/1000 ft.
Max. Recommended Pulling Tension	79 lbs.
Min. Bend Radius (Install)	2.75 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

FLAME TEST:

UL Flame Test	UL1685 UL Loading

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
Plenum Number	88777, 87777, 82777

ELECTRICAL CHARACTERISTICS:

BELDENCable

8777 Paired - Shielded Twisted Pair Cable

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	0.18 µH/ft
Nom. Capacitance Conductor to Conductor @ 1 KHz	30 pF/ft
Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz	55 pF/ft
Nominal Velocity of Propagation	66 %
Nom. Conductor DC Resistance @ 20 Deg. C	15.0 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	10.6 Ohms/1000 ft
Max. Operating Voltage - UL	30 V RMS (UL AWM Style 2919), 300 V RMS (CM)
Max. Recommended Current	2 Amps per conductor @ 25°C

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8777 060100	3 SHLD PR #22 PP PVC	100	4.7	CHROME	
8777 0601000	3 SHLD PR #22 PP PVC	1000	44	CHROME	C
8777 06010000	3 SHLD PR #22 PP PVC	10000	460	CHROME	C Y
8777 0601640	3 SHLD PR #22 PP PVC	1640	70.52	CHROME	C
8777 060250	3 SHLD PR #22 PP PVC	250	10	CHROME	C
8777 0603280	3 SHLD PR #22 PP PVC	3280	141.04	CHROME	C
8777 060500	3 SHLD PR #22 PP PVC	500	20	CHROME	C
8777 0605000	3 SHLD PR #22 PP PVC	5000	215	CHROME	C
8777 060U1000	3 SH PR #22 PP PVC	U1000	41	CHROME	
8777 060U500	3 SHLD PR #22 PP PVC	U500	21	CHROME	

C = CRATE REEL PUT-UP.

Y = FINAL PUT-UP LENGTH MAY VARY -10% TO +20% FROM LENGTH SHOWN. MAY CONTAIN 2 PIECES. MINIMUM LENGTH OF ANY ONE PIECE IS 1500'.

Revision Number: 1 Revision Date: 09-14-2005

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