Detailed Specifications & Technical Data

BELDENCable

8778 Paired - CM Rated 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 conductor, polypropylene insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded tinned copper drain wire.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	6
Total Number of Conductors	12
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	4	Black & Blue
2	Black & White	5	Black & Yellow
3	Black & Green	6	Black & Brown

INNER SHIELD:

Inner Shield Material Trade Name	Beldfoil® (Z-Fold®)
Inner Shield Type	Tape
Inner Shield Material	Aluminum Foil-Polyester Tape
Inner Shield % Coverage	100 %
Inner Shield Drain Wire AWG	22

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Inner Shield Drain Wire Stranding	Stranded
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	.362 in.

MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +80°C
UL Temperature Rating	80°C (UL AWM Style 2919)
Bulk Cable Weight	74.3 lbs/1000 ft.
Max. Recommended Pulling Tension	157 lbs.
Min. Bend Radius (Install)	3.6 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
Non-Plenum Number	88778, 87778, 82778

ELECTRICAL CHARACTERISTICS:

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 Ohms/1000 ft
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C	10.6 Ohms/1000 ft

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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
8778 060100	6 FS PR #22 HDPE PVC	100	8.4	CHROME	
8778 0601000	6 FS PR #22 HDPE PVC	1000	83	CHROME	C
8778 060250	6 FS PR #22 HDPE PVC	250	19	CHROME	C
8778 060500	6 FS PR #22 HDPE PVC	500	43	CHROME	C

C = CRATE REEL PUT-UP.

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