# **Detailed Specifications & Technical Data**

## METRIC MEASUREMENT VERSION





## 8775 Multi-Conductor - CM Rated Cable

For more Information please call

1-800-Belden1



## **General 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 (Overall)**

## Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (mm)
11	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 22

## Insulation

## Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.279

#### **Inner Shield**

#### Inner Shield Material:

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

#### Inner Shield Drain Wire AWG:

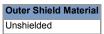


Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### **Outer Shield**

## **Outer Shield Material:**



## **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.914

## **Overall Cable**

Overall Nominal Diameter: 11.786 mm

#### Pair

#### **Pair Color Code Chart:**

Number Color					
1	Black & Red				
2	Black & White				
3	Black & Green				
4	Black & Blue				
5	Black & Yellow				
6	Black & Brown				

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7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue
11	Red & Yellow

Mechanical Characteristics (Overall)				
Operating Temperature Range:	-20°C To +80°C			
UL Temperature Rating:	80°C (UL AWM Style 2919)			
Bulk Cable Weight:	172.631 Kg/Km			
Max. Recommended Pulling Tension:	1138.739 N			
Min. Bend Radius/Minor Axis:	120.650 mm			
Applicable Specifications and Agency Compliance (Overall)				
Applicable Standards & Environmental Progr	rams			
NEC/(UL) Specification:	CM			
CEC/C(UL) Specification:	CM			
AWM Specification:	UL Style 2919 (30 V 80°C)			
EU Directive 2011/65/EU (ROHS II):	Yes			
EU CE Mark:	Yes			
EU Directive 2000/53/EC (ELV):	Yes			
EU Directive 2002/95/EC (RoHS):	Yes			
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004			
EU Directive 2002/96/EC (WEEE):	Yes			
EU Directive 2003/11/EC (BFR):	Yes			
CA Prop 65 (CJ for Wire & Cable):	Yes			
MII Order #39 (China RoHS):	Yes			
Flame Test				
UL Flame Test:	UL1685 UL Loading			

No

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 50

Plenum/Non-Plenum Plenum (Y/N):

Nom. Inductance:

Inductance (µH/m) 0.59058

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 98.43

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 180.455

Nominal Velocity of Propagation:

**VP (%)** 66

Nom. Conductor DC Resistance:

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DCR @ 20°C (Ohm/km) 49.215

Ind. Pair Nominal Shield DC Resistance @ 20 34.779 Ohm/km Deg. C:

Max. Operating Voltage - UL:

Voltage	Description		
30 V RMS	UL AWM Style 2919		
300 V RMS	СМ		

Max. Recommended Current:

Current
1.4 Amps per conductor @ 25°C

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8775 060100	100 FT	13.100 LB	CHROME	С	11 FS PR #22 PP PVC
8775 0601000	1,000 FT	125.000 LB	CHROME	С	11 FS PR #22 PP PVC
8775 060500	500 FT	63.000 LB	CHROME	С	11 FS PR #22 PP PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-17-2012

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