# **Detailed Specifications & Technical Data**

METRIC MEASUREMENT VERSION



## 8777 Multi-Conductor - Shielded Twisted Pair Cable

For more Information please call

1-800-Belden1



# **General 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.

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## **Physical Characteristics (Overall)**

## Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>	Dia. (mm)
3	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors:

## Insulation

## **Insulation Material:**

# | Insulation Material | Wall Thickness (mm) | PP - Polypropylene | 0.279

#### **Inner Shield**

## Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Beldfoil®	Таре	Aluminum-Polyester	100.000

#### Inner Shield Drain Wire AWG:

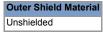


Inner Shield Drain Wire Stranding: 7x30

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	0.864

## **Overall Cable**

Overall Nominal Diameter: 6.934 mm

## **Pair**

## Pair Color Code Chart:

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

## **Mechanical Characteristics (Overall)**

Storage Temperature Range:	-40°C To +80°C	
Operating Temperature Range:	-20°C To +80°C	_

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## 8777 Multi-Conductor - Shielded Twisted Pair Cable

UL Temperature Rating:	80°C (UL AWM Style 2919)		
Bulk Cable Weight:	58.040 Kg/Km		
Max. Recommended Pulling Tension:	351.408 N		
Min. Bend Radius/Minor Axis:	69.850 mm		

## **Applicable Specifications and Agency Compliance (Overall)**

## **Applicable Standards & Environmental Programs**

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
ame Test	

## **Flame Test**

**UL Flame Test:** UL1685 UL Loading

## Plenum/Non-Plenum

Plenum (Y/N):

**Plenum Number:** 88777, 87777, 82777

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



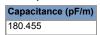
Nom. Inductance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



**Nominal Velocity of Propagation:** 



Nom. Conductor DC Resistance:

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

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#### METRIC MEASUREMENT VERSION



## 8777 Multi-Conductor - Shielded Twisted Pair Cable

30 V RMS	AWM Style 2919		
300 V RMS (CM)	CM		

#### Max. Recommended Current:

Current	
2 Amps per conductor @ 25°0	2

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8777 060U1000	305 MT	18.597 KG	CHROME		3 SH PR #22 PP PVC
8777 060U500	152 MT	9.525 KG	CHROME		3 SHLD PR #22 PP PVC
8777 060100	30 MT	2.132 KG	CHROME		3 SHLD PR #22 PP PVC
8777 0601000	305 MT	19.505 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 06010000	3,048 MT	208.653 KG	CHROME	CY	3 SHLD PR #22 PP PVC
8777 0601640	500 MT	31.244 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 060250	76 MT	5.103 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 0603280	1,000 MT	62.487 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 060500	152 MT	9.752 KG	CHROME	С	3 SHLD PR #22 PP PVC
8777 0605000	1,524 MT	97.523 KG	CHROME	С	3 SHLD PR #22 PP PVC

#### Notes:

C = CRATE REFL PUT-UP

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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'.