# **Detailed Specifications & Technical Data**

### METRIC MEASUREMENT VERSION





## 82742 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information please call

1-800-Belden1



## **General Description:**

22 AWG stranded (7x30) tinned copper conductors, plenum, FEP insulation, twisted pairs, Flamarrest® jacket.

## **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>
3	22	7x30	TC - Tinned Copper

Total Number of Conductors: 6

### Insulation

### **Insulation Material:**

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.178

### **Outer Shield**

### **Outer Shield Material:**

Outer Shield	Material
Unshielded	

### **Outer Jacket**

### **Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	0.3556

### **Overall Cable**

Overall Nominal Diameter: 4.851 mm

## Pair

### Pair Color Code Chart:

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

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	0°C To +60°C
Bulk Cable Weight:	34.229 Kg/Km
Max. Recommended Pulling Tension:	209.065 N
Min. Bend Radius/Minor Axis:	50.800 mm

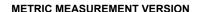
## **Applicable Specifications and Agency Compliance (Overall)**

## **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes

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Yes
Yes
Yes
04/01/2005
Yes
Yes
Yes
Yes
NFPA 262
FT6
Yes

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm) 80

Nom. Inductance:

Inductance (µH/m) 0.49215

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 68.901

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 52.496

**Nominal Conductor Loop Resistance:** 

Resistance @ 20°C (Ohm/km) 104.992

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current
3.3 Amps per conductor @ 25°C (10°C rise in temp)

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82742 8771000	1,000 FT	26.000 LB	NATURAL	С	3PR#22 FEP FLMRST

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 11-07-2012

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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