

## 8446 Multi-Conductor - Audio, Control, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

22 and 18 AWG stranded (7x30 and 19x30) tinned copper conductors cabled, PVC insulation, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	22	7x30	TC - Tinned Copper
2	18	19x30	TC - Tinned Copper

Total Number of Conductors: 6

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)	AWG
PVC - Polyvinyl Chloride	0.279	22
PVC - Polyvinyl Chloride	0.483	18

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.8128

#### Overall Cable

Overall Cabling Color Code Chart:

Color	AWG
Red	22
Green	22
Brown	22
Blue	22
White	18
Black	18

Overall Nominal Diameter: 5.994 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2576)
Bulk Cable Weight:	58.040 Kg/Km
Max. Recommended Pulling Tension:	346.960 N
Min. Bend Radius/Minor Axis:	63.500 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
AWM Specification:	UL Style 2576 (150 V 80°C)
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

## METRIC MEASUREMENT VERSION

### 8446 Multi-Conductor - Audio, Control, Communication and Instrumentation Cable

EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes

#### Flame Test

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4

#### Plenum/Non-Plenum

Plenum (Y/N):	No
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#### Electrical Characteristics (Overall)

##### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
98.43

##### Nom. Capacitance Cond. to Other Cond. & Ground:

Capacitance (pF/m)
177.174

##### Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/km)
22 AWG	50.8555
18 AWG	22.3108

##### Max. Operating Voltage - UL:

Voltage	Description
150 V RMS	UL AWM Style 2576
300 V RMS	CMG

##### Max. Recommended Current:

Description	Current
22 AWG	2.5 Amps per conductor @ 25°C
18 AWG	5.6 Amps per conductor @ 25°C

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8446 060U1000	1,000 FT	41.000 LB	CHROME		4#22 2#18 PVC PVC
8446 060U500	500 FT	21.500 LB	CHROME		4#22 2#18 PVC PVC
8446 060100	100 FT	4.700 LB	CHROME		4#22 2#18 PVC PVC
8446 0601000	1,000 FT	43.000 LB	CHROME	C	4#22 2#18 PVC PVC
8446 060500	500 FT	21.500 LB	CHROME	C	4#22 2#18 PVC PVC

##### Notes:

C = CRATE REEL PUT-UP.

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