

METRIC MEASUREMENT VERSION

## 8766 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

22 AWG solid conductors, PVC insulation, tinned copper, twisted pairs, individually shielded w/Beldfoil® (100% coverage), 22 AWG solid TC drain wire, overall PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
15	22	Solid	TC - Tinned Copper

Total Number of Conductors: 30

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.3302

#### 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:

AWG
22

Inner Shield Drain Wire Stranding: Solid

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.143

#### Overall Cable

Overall Nominal Diameter: 13.335 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
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown

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13	Red & Orange
14	Green & White
15	Green & Blue

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	257.459 Kg/Km
Max. Recommended Pulling Tension:	1934.967 N
Min. Bend Radius/Minor Axis:	133.350 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, MPG
CEC/C(UL) Specification:	CMG, MPG
AWM Specification:	UL Style 2464 (300 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):	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
MII 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. Inductance:

Inductance (µH/m)
0.62339

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
131.24

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)
252.637

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
54.7927

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 39.372 Ohm/km

#### Max. Operating Voltage - UL:

Voltage
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300 V RMS

### Max. Recommended Current:

#### Current

1.5 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8766 0601000	1,000 FT	180.000 LB	CHROME	C	15 #22 PVC SH PR PVC

#### Notes:

C = CRATE REEL PUT-UP.

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