

# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

## 8764 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
9	22	Solid	TC - Tinned Copper

Total Number of Conductors: 18

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PVC - Polyvinyl Chloride	.013

#### 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 (in.)
PVC - Polyvinyl Chloride	.040

#### Overall Cable

Overall Nominal Diameter:

0.425 in.

#### 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

### Mechanical Characteristics (Overall)

Operating Temperature Range:

-20°C To +80°C

UL Temperature Rating:

80°C (UL AWM Style 2464)

Bulk Cable Weight:

112 lbs/1000 ft.

Max. Recommended Pulling Tension:

262 lbs.

Min. Bend Radius/Minor Axis:

4.250 in.

### Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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### 8764 Multi-Conductor - Audio, Control and Instrumentation Cable

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 ( $\mu$ H/ft)
.19

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

Capacitance (pF/ft)
40

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

Capacitance (pF/ft)
77

##### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
16.7

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 12 Ohm/1000 ft

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

Voltage
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
8764 0601000	1,000 FT	120.000 LB	CHROME	C	9 #22 SHPR PVC

##### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 10-05-2012

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