

## 8728 Multi-Conductor - Special Audio, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) TC conductors, polypropylene insulation, cabled in pairs, overall Beldfoil® shield (100% coverage), 24 AWG stranded TC drain wires, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
2	22	7x30	TC - Tinned Copper	0.762

Total Number of Conductors: 4

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (mm)
PP - Polypropylene	1.270

#### Inner Shield

##### Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Layer 1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
Layer 2		Tape	Polyester Tape	100

##### Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	Stranded	TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.7112

#### Overall Cable

Overall Nominal Diameter: 5.461 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red
2	White & Green

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### Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2717)
Bulk Cable Weight:	41.670 Kg/Km
Max. Recommended Pulling Tension:	161.914 N
Min. Bend Radius/Minor Axis:	57.150 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
NEC Articles:	800
CEC/C(UL) Specification:	CM
AWM Specification:	UL Style 2717 (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):	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

#### Flame Test

UL Flame Test:	UL1685 UL Loading
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#### Plenum/Non-Plenum

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

#### Nom. Characteristic Impedance:

Impedance (Ohm)

50

#### Nom. Inductance:

Inductance (µH/m)

0.59058

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

114.835

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

Capacitance (pF/m)

203.422

#### Nominal Velocity of Propagation:

VP (%)

66

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

55.777

## METRIC MEASUREMENT VERSION

### 8728 Multi-Conductor - Special Audio, Communication and Instrumentation Cable

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 54.465 Ohm/km

#### Max. Operating Voltage - UL:

Voltage
300 V RMS (UL AWM Style 2717)

#### Max. Recommended Current:

Current
2.3 Amps per conductor @ 25°C

#### Notes (Overall)

**Notes:** Each pair Beldfoil® shielded with individual drain wire plus a polyester film over each shield.

#### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8728 060U1000	305 MT	13.608 KG	CHROME		2 #22 SHPR PP PVC
8728 060U500	152 MT	7.031 KG	CHROME		2 #22 SHPR PP PVC
8728 0601000	305 MT	14.061 KG	CHROME	C	2 #22 SHPR PP PVC
8728 060500	152 MT	7.031 KG	CHROME	C	2 #22 SHPR PP PVC
8728 0605000	1,524 MT	65.771 KG	CHROME	C	2 #22 SHPR PP PVC

**Notes:**  
C = CRATE REEL PUT-UP.

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