

## 8787 Multi-Conductor - Special Audio, Communication and Instrumentation Cable



For more Information  
please call

1-800-Belden1

**General Description:**

24 and 22 AWG stranded (7x32 and 7x30) TC conductors, PVC insulation (22 AWG) / polyethylene insulation (24 AWG), cabled in quads, 24 AWG stranded TC drain wire, PVC jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

# Conductors	AWG	Stranding	Conductor Material
8	24	7x32	TC - Tinned Copper
2	22	7x30	TC - Tinned Copper

Total Number of Conductors: 10

**Insulation**

Insulation Material:

Insulation Material	Wall Thickness (in.)	AWG
PE - Polyethylene	.012	24
PVC - Polyvinyl Chloride	.015	22

Insulation Resistance: 100 Megaohms/1000 ft. @ 500 V DC

**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 Material (Multi-AWG):

AWG	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)	Description
24	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100	Over Quad
24	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100	Over Quad
22			Unshielded		Singles

Inner Shield Drain Wire AWG:

AWG
24

Inner Shield Drain Wire Stranding: 7x32

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Inner Shield Waterblocking Tape: Gray, White, Blue, Green; Brown, Red, Yellow, Orange; White, Blue

**Outer Jacket**

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	.030

**Overall Cable**

Overall Cabling Color Code Chart:

Number	Color	AWG	Group/Cond. Color
1	Red Quad	24	Red Quad
2	White	22	White
3	Green Quad	24	Green Quad
4	Blue	22	Blue

Overall Nominal Diameter: 0.290 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: -20°C To +80°C

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 45 lbs/1000 ft.

Max. Recommended Pulling Tension: 62.200 lbs.

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Min. Bend Radius/Minor Axis: 3 in.

## Applicable Specifications and Agency Compliance (Overall)

## Applicable Standards &amp; Environmental Programs

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
MIL Order #39 (China RoHS):	Yes

## Flame Test

UL Flame Test: VW-1, UL1685 UL Loading

## Plenum/Non-Plenum

Plenum (Y/N): No

## Electrical Characteristics (Overall)

## Nom. Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/1000 ft)
24 AWG	23.9
22 AWG	15

## Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5

## Max. Operating Voltage - Non-UL:

Voltage
350 V RMS

## Max. Recommended Current:

Current
1.5 Amps per conductor @ 25°C (24 AWG); 2.0 Amps per conductor @ 25°C (22 AWG)

## Notes (Overall)

**Notes:** Inner Beldfoil® shield over 24 AWG quads. Each quad wrapped in transparent polyester tape. Red Beldfoil® shield over one quad, Green Beldfoil® shield over the other. (2) quads and (2) unshielded conductors cabled.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8787 060U500	500 FT	24.000 LB	CHROME		2 #22, 8 #24 FS PVC
8787 060500	500 FT	24.000 LB	CHROME	C	2 #22, 8 #24 FS PVC

**Notes:**

C = CRATE REEL PUT-UP.

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