

82742 Multi-Conductor - Audio, Control and Instrumentation Cable



Description:

22 AWG stranded (7x30) tinned copper conductors, plenum, FEP insulation, twisted pairs, Flamarrest® jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
3	22	7x30	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.006

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (in.)
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride	.014

Overall Cabling

Overall Nominal Diameter: 0.191 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

Mechanical Characteristics (Overall)

Operating Temperature Range: 0°C To +60°C

Bulk Cable Weight: 22.300 lbs/1000 ft.

Max. Recommended Pulling Tension: 47 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

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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:	NFPA 262
C(UL) Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

80

Nom. Inductance:

Inductance (µH/ft)

.15

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

21

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

16

Nominal Conductor Loop Resistance:

Resistance @ 20°C (Ohm/1000 ft)

32

Max. Operating Voltage - UL:

Voltage

300 V RMS

Max. Recommended Current:

Current

3.3 Amps per conductor @ 25°C (10°C rise in temp)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
82742 8771000	1,000 FT	26.000 LB	NATURAL	C	3PR#22 FEP FLMRST

Notes:

C = CRATE REEL PUT-UP.




Unshielded

Audio, Control and Instrumentation Cables
Plenum-Rated






Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD	
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm

22 AWG Stranded (7x30) Tinned Copper Conductors • Twisted Pairs

Plenum • FEP Insulation • Red FEP Jacket

	88442 NEC: CMP CEC: CMP FT6	1	Black & Red	100	30.5	2.3	1.0	.006	.15	.012	.30	.102	2.59	
				500 [†]	152.4	5.5	2.5							
				1000 [†]	304.8	8.0	3.6							
	88741 NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	500 [†]	152.4	8.0	3.6	.006	.15	.012	.30	.169	4.29	
				1000 [†]	304.8	16.0	7.3							
	88757 NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	500 [†]	152.4	14.0	6.4	.006	.15	.019	.23	.200	5.08	
				1000 [†]	304.8	28.0	12.7							

Plenum • FEP Insulation • Natural Flamarrest® Jacket

	82442 NEC: CMP CEC: CMP FT6	1	Black & Red	U-1000 [†]	U-304.8	9.0	4.1	.006	.15	.014	.36	.112	2.84	
				1000 [†]	304.8	8.0	3.6							
	82741 NEC: CMP CEC: CMP FT6	2	Black & Red, Black & White	U-1000 [†]	U-304.8	18.0	8.2	.006	.15	.014	.36	.179	4.55	
				1000 [†]	304.8	20.0	9.1							
	82742 NEC: CMP CEC: CMP FT6	3	Black & Red, Black & White, Black & Green	U-1000 [†]	U-304.8	24.0	10.9	.006	.15	.014	.36	.191	4.85	
				1000 [†]	304.8	26.0	11.8							
	82757 NEC: CMP CEC: CMP FT6	4	Black & Red, Black & White, Black & Green, Black & Blue	1000 [†]	304.8	32.0	14.5	.006	.15	.014	.36	.210	5.33	
	82743 NEC: CMP CEC: CMP FT6	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	U-1000 [†]	U-304.8	44.0	20.0	.006	.15	.015	.38	.238	6.05	
				1000 [†]	304.8	46.0	20.9							

[†]Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.