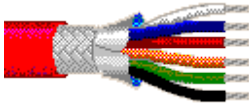


83612 Multi-Conductor - Audio, Control and Instrumentation Cable

**Description:**

20 AWG stranded (7x28) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Conductors	AWG	Stranding	Conductor Material
12	20	7x28	TC - Tinned Copper

Insulation**Insulation Material:**

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

Outer Shield**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	85

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.014

Overall Cabling**Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black
10	Orange/Black
11	Blue/Black
12	Black/White

Overall Nominal Diameter: 0.265 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 83.600 lbs/1000 ft.

Max. Recommended Pulling Tension: 232 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.750 in.

83612 Multi-Conductor - Audio, Control and Instrumentation Cable

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
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. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
26

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
51

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
8.6

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.5

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
2.7 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83612 0021000	1,000 FT	67.000 LB	RED	C	12#20 FEP SH FEP
83612 002500	500 FT	35.000 LB	RED	C	12#20 FEP SH FEP

Notes:

C = CRATE REEL PUT-UP.

Plenum-Rated

Overall Foil/Braid Shield

Audio, Control and Instrumentation Cables

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

20 AWG Stranded (7x28) TC Conductors • Conductors Cabled • Overall Beldfoil® (100% Coverage) + TC Braid Shield (85% Coverage)**Plenum • FEP Insulation • Red FEP Jacket**

	300V RMS	83602	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	500 [†] 1000 [†]	152.4 304.8	11.0 22.0	5.0 10.0	.006 .15	.014 .36	.157 3.99	26	85	51	167
		83604	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	5.1 16.0 32.0	2.3 7.3 14.6	.006 .15	.014 .36	.178 4.52	26	85	51	167
		83606	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	6.2 21.5 47.0	2.8 9.8 21.3	.006 .15	.014 .36	.207 5.26	26	85	51	167
		83609	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	8.2 30.0 63.0	3.7 13.7 28.6	.006 .15	.014 .36	.238 6.05	26	85	51	167
		83612	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	7.8 35.0 67.0	3.5 15.9 30.4	.006 .15	.014 .36	.265 6.73	26	85	51	167

Suitable for Outdoor and Direct Burial applications.

18 AWG Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil (100% Coverage) + TC Braid Shield (85% Coverage)**Plenum • FEP Insulation • Red FEP Jacket**

	300V RMS	83652	NEC: CMP CEC: CMP FT6	2	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	4.6 13.5 27.0	2.1 6.1 12.3	.007 .18	.014 .36	.175 4.45	33	108	60	197
		83653	NEC: CMP CEC: CMP FT6	3	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	5.4 17.5 39.0	2.5 8.0 17.7	.007 .18	.014 .36	.184 4.67	33	108	60	197
		83654	NEC: CMP CEC: CMP FT6	4	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	6.2 21.5 46.0	2.8 9.8 20.9	.007 .18	.014 .36	.199 5.05	33	108	60	197
		83656	NEC: CMP CEC: CMP FT6	6	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	8.1 29.5 62.0	3.7 13.5 28.2	.007 .18	.014 .36	.234 5.94	33	108	60	197
		83659	NEC: CMP CEC: CMP FT6	9	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	9.8 45.0 88.0	4.4 20.4 40.0	.007 .18	.015 .38	.293 7.44	33	108	60	197
		83662	NEC: CMP CEC: CMP FT6	12	See Chart 2 (Tech Info Section)	100 500 [†] 1000 [†]	30.5 152.4 304.8	11.9 55.5 109.0	5.4 25.2 49.5	.007 .18	.015 .38	.308 7.82	33	108	60	197

Suitable for Outdoor and Direct Burial applications.

TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

[†]Spools are one piece, but length may vary ±10% from length shown.