

Description:

18 AWG bare copper conductors, PP insulation, conductors cabled, Beldfoil® shield tape (foil side out) with drain wire, PVC jacket with ripcord, sequential footage marking every two feet.

Usage (Overall)

Suitable Applications: Intercom/PA Systems, Sound/Audio Systems

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	18	7x26	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PP - Polypropylene	0.007

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.017

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Cabling Lay Length & Direction:

Length (in.)	Twists (ft.)
2.500	4.800

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	White

Overall Nominal Diameter: 0.165 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 27.700 lbs/1000 ft.

5301FE Multi-Conductor - Commercial Audio Systems

Max. Recommended Pulling Tension:	81.200 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.625 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
NEC Articles:	800
CEC/C(UL) Specification:	CMG
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:	UL1666 Vertical Shaft
C(UL) Flame Test:	FT4

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	6301FE

Surface Printing (Overall)

Surface Printing:	NEW GENERATION(R) BY BELDEN-M 5301FE CMR 75C 3C18 SHIELDED (UL) E108998 OR C(UL) CMG (2FT., 7 DIGIT SEQUENTIAL) FEET
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Electrical Characteristics (Overall)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
53.000

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
95.500

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.5

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
7.2

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
5 Amps per conductor @ 25°C

Put Ups and Colors:

5301FE Multi-Conductor - Commercial Audio Systems

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5301FE 008U1000	1,000 FT	25.000 LB	GRAY		3 #18 PP FS FRPVC
5301FE 008U500	500 FT	13.000 LB	GRAY		3 #18 PP FS FRPVC
5301FE 0081000	1,000 FT	25.000 LB	GRAY	C	3 #18 PP FS FRPVC
5301FE 008500	500 FT	12.500 LB	GRAY		3 #18 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

Audio Cable

Commercial Audio Systems
Shielded, Riser-Rated or CL3R Rated



Shielded Multi-conductor
CMR/CMG FT4 Rated or CL3R Rated

Product Description

Bare copper conductors, PVC insulation, conductors cabled, Beldfoil® shield tape (foil side out) with drain wire, Gray PVC jacket with rip cord. Sequential footage marking every two feet.

Color Code: See chart below.

Specifications

Conductor	Bare Copper
Insulation	PVC
Insulation Thickness	
24 to 16 AWG	.010" (.254mm)
14 to 12 AWG	.014" (.356mm)
Shield	Beldfoil
Jacket	PVC
Approvals	
NEC (24 to 16 AWG)	CMR FPLR†
CEC (24 to 16 AWG)	CMG FT4
NEC (14 to 12 AWG)	CL3R

NEC Articles	
24 to 16 AWG	800
14 to 12 AWG	725

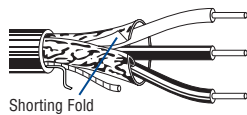
Voltage Rating	300V
Temperature Rating	75°C

†CMR FPLR dual rating for 5000UE, 5100UE, 5000FE and 5100FE only.

Applications

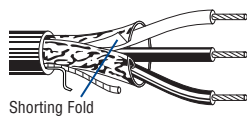
- Intercom/PA Systems
- Sound/Audio Systems
- Fire Alarm Systems (Red Only)

Solid Conductor



Shorting Fold

Stranded Conductor



Shorting Fold

Color Code Chart

(24 to 16 AWG)

Cond. No.	Color	Cond. No.	Color
1	Black	1	Black
2	Red	2	White
3	White	3	Red

(14 to 12 AWG)

Part No.	No. of Cond.	Stranding	Standard Lengths		Standard Unit Weight		Outer Jacket Thickness		Nominal OD	
			Ft.	m	Lbs.	kg	Inch	mm	Inch	mm

Shielded Multi-conductor (NEC CMR and CEC CMG FT4)

24 AWG										
5600FE	2	7	U-1000 1000	U-305 305	11.0 10.0	5.0 4.5	.015	.38	.120	3.05

22 AWG										
5520FE	2	solid	C-500 C-1000 U-1000 1000	C-152 C-305 U-305 305	6.5 13.0 14.0 14.0	3.0 5.9 6.4 6.4	.015	.38	.125	3.18
5500FE	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	5.5 6.5 6.5 12.0 12.0	2.5 3.0 3.0 5.5 5.5	.015	.38	.130	3.30

5521FE	3	solid	U-1000 1000	U-305 305	12.0 12.0	5.4 5.4	.015	.38	.132	3.35
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5501FE	3	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	7.0 8.0 7.5 15.0 15.0	3.2 3.6 3.4 6.8 6.8	.015	.38	.138	3.51
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20 AWG										
5400FE	2	7	U-500 500 U-1000 1000	U-152 152 U-305 305	9.0 8.5 17.0 17.0	4.1 3.9 7.7 7.7	.015	.38	.145	3.68

5421FE	3	solid	U-1000	U-305	20.0	9.1	.015	.38	.146	3.71
5401FE	3	7	U-500 500 U-1000 1000	U-152 152 U-305 305	11.0 10.5 21.0 21.0	5.0 4.8 9.5 9.5	.015	.38	.153	3.89

18 AWG										
5320FE	2	solid	C-500 U-1000 1000	C-152 U-305 305	10.0 21.0 21.0	4.5 9.5 9.5	.015	.38	.155	3.94

5300FE	2	7	C-500 U-500 500 U-1000 1000	C-152 U-152 152 U-305 305	11.0 12.0 12.0 23.0 23.0	5.0 5.4 5.4 10.4 10.4	.015	.38	.165	4.19
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5301FE	3	7	U-500 500 U-1000 1000	U-152 152 U-305 305	15.5 15.0 30.0 30.0	7.0 6.8 13.6 13.6	.015	.38	.175	4.45
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16 AWG										
5200FE*	2	19	U-500 500 U-1000 1000	U-152 152 U-305 305	16.5 16.5 31.0 32.0	7.5 7.5 14.1 14.5	.015	.38	.188	4.78

5201FE	3	19	500 U-1000 1000	152 U-305 305	21.5 42.0 42.0	9.8 19.1 19.1	.015	.38	.200	5.08
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Shielded Multi-conductor (NEC CL3R)

14 AWG										
5100FE**	2	19	500 U-1000 1000	152 U-305 305	28.5 49.0 51.0	13.0 22.3 23.2	.015	.38	.238	6.05
5101FE	3	19	1000	305	66.0	30.0	.015	.38	.253	6.43

12 AWG										
5000FE**	2	19	500 1000	152 305	36.5 67.0	16.6 30.4	.015	.38	.272	6.91

* 5200FE also available in White.

** 5100FE and 5000FE also available in Red (rating FPLR).