

89418 Multi-Conductor - Audio, Control and Instrumentation Cable



Description:

18 AWG stranded (19x30) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® shield (100% coverage), 20 AWG stranded TC drain wire, FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
4	18	19x30	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.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
20	19x32	TC	Tinned Copper

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

Overall Nominal Diameter: 0.173 in.

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 38.800 lbs/1000 ft.

Max. Recommended Pulling Tension: 114 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

89418 Multi-Conductor - Audio, Control and Instrumentation Cable

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

Suitability

Suitability - Outdoor:	Yes
Suitability - Burial:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9418

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/ft)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

VP (%)

Nominal Delay:

Delay (ns/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

Voltage

Max. Recommended Current:

Current

Notes (Overall)

Notes: Chemical Resistance: Gasoline, Oil

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Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89418 002100	100 FT	5.400 LB	RED	C	4#18 FEP FS FEP
89418 0021000	1,000 FT	35.000 LB	RED	C	4#18 FEP FS FEP
89418 002500	500 FT	17.500 LB	RED	C	4#18 FEP FS FEP

Notes:

C = CRATE REEL PUT-UP.

Overall Beldfoil® Shield


Audio, Control and Instrumentation Cables

Plenum-Rated and Non-Plenum

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

18 AWG Stranded (16x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire


Polyethylene Insulation • Chrome PVC Jacket

 <p>Shorting Fold</p>	8770	NEC:	3	Black, Red, Clear	U-500	U-152.4	20.0	9.1	.018	.46	.033	.84	.246	6.25	24	79	48	157			
		CM			500	152.4	20.5	9.3													
		CEC:			U-1000	U-304.8	38.0	17.2													
		CM			1000	304.8	40.0	18.2													
					10000††	3048.0	430.0	195.5													

For Plenum version of 8770, see 8770.


18 AWG Stranded (19x30) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

Semi-rigid PVC Insulation • Chrome PVC Jacket


 <p>Z-Fold®</p>	9418	NEC:	4	Red, Green, Black, White	100	30.5	5.6	2.6	.010	.25	.035	.89	.245	6.22	70	230	120	394			
		CMG			U-500	U-152.4	18.0	8.2													
		CEC:			500	152.4	24.5	11.1													
		CMG FT4			U-1000	U-304.8	35.0	16.0													
					1000	304.8	52.0	23.7													
					10000††	3048.0	510.0	231.3													

For Plenum versions of 9418, see 89418 or 82418.

Plenum • FEP Insulation • Red FEP Jacket


	8770	NEC:	3	Black, White, Red	500	152.4	16.0	7.3	.007	.18	.014	.36	.161	4.09	54	177	96	315			
		CMP			1000	304.8	32.0	14.6													
		CEC:																			
		CMP FT6																			

Suitable for Outdoor and Direct Burial applications. Chemical Resistance: Gasoline and Oil.

	89418	NEC:	4	Black, White, Red, Green	100	30.5	5.5	2.5	.007	.18	.014	.36	.177	4.50	30	98	57	187			
		CMP			500†	152.4	18.0	8.2													
		CEC:			1000†	304.8	36.0	16.4													
		CMP FT6																			

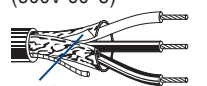
Suitable for Outdoor and Direct Burial applications. Chemical Resistance: Gasoline and Oil.

Plenum • FEP Insulation • Natural Flammarrest® Jacket

	82418	NEC:	4	Black, White, Red, Green	U-1000▲	U-304.8	36.0	16.4	.007	.18	.014	.36	.176	4.47	30	98	63	207			
		CMP			1000†	304.8	38.0	17.2													
		CEC:																			
		CMP FT6																			

16 AWG Stranded (19x29) TC Conductors • Conductors Cabled • Overall Beldfoil Shield (100% Coverage) • 18 AWG Stranded TC Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

 <p>Z-Fold®</p>	8618	NEC:	3	Black, Red, Clear	U-500	U-152.4	31.0	14.1	.031	.79	.031	.79	.327	8.3	26	85	50	164			
		CL3			500	152.4	32.5	14.8													
					1000	304.8	66.0	30.1													

TC = Tinned Copper

* Capacitance between conductors.

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

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

†† Final put-up may vary -10% to +20%. May contain 2 pieces. Min. length 1500 ft.

▲ Final put-up may vary 0 to -10%.