

# FCSM

**Flame-retardant heavy-wall tubing for 1/C low-voltage power cable (2000-V)**

FCSM tubing's tough, crosslinked polyolefin construction provides mechanical strength and cut-through resistance equal to, or surpassing, the properties of low-voltage cable jackets.

FCSM tubing has a 3:1 shrink ratio and an unlimited shelf life when stored under normal conditions.

Use sealant-coated tubing (-S) as a sealed in-line splice or terminal lug seal. It provides a watertight seal for direct-buried applications and wet environments.

Use uncoated tubing (-/U) for cable rejacketing only.

Sealant-coated or uncoated tubing may be used for jacket repair on cable to 35 kV. Qualified to ANSI C119.1-1986; also rated to IEEE 383 (Vertical Tray Flame Test) and ICEA S-19-81.

For use on standard poly- or elastomeric-insulated/jacketed cables or lead-jacketed cables, which may include aluminum or steel armoring.

Connectors up to 6 inches:  
Recommended cut length = connector length + 4 inches.

Connectors over 6 inches:  
Recommended cut length = connector length + 5 inches.



### Selection information (dimensions in inches/millimeters)

Catalog number	1000-V insulated conductor size (AWG/kcmil)		General use range (min.-max.)			Tube length*	Standard package ft. (m)/roll	Standard package pcs/box	Bulk option ft (m)/roll
<b>In-line splice or terminal lug seal</b>									
FCSM-9/3-1200-S	#14 -	#8	0.15 -	0.30	(4 - 8)	48 (1200)		25	
FCSM-19/6-150-S	#6 -	#2	0.25 -	0.65	(6 - 17)	6 (150)		50	
FCSM-19/6-1200-S	#6 -	#2	0.25 -	0.65	(6 - 17)	48 (1200)		25	
FCSM-28/9-225-S	#2 -	4/0	0.40 -	0.95	(10 - 24)	9 (225)		50	
FCSM-28/9-1200-S	#2 -	4/0	0.40 -	0.95	(10 - 24)	48 (1200)		25	
FCSM-38/12-300-S	1/0 -	350	0.50 -	1.30	(13 - 33)	12 (300)		40	
FCSM-38/12-1200-S	1/0 -	350	0.50 -	1.30	(13 - 33)	48 (1200)		10	
FCSM-51/16-300-S	250 -	500	0.70 -	1.75	(18 - 44)	12 (300)		30	
FCSM-51/16-1200-S	250 -	500	0.70 -	1.75	(18 - 44)	48 (1200)		10	
FCSM-68/22-1200-S	600 -	1000	0.95 -	2.30	(25 - 58)	48 (1200)		10	
FCSM-90/30-1200-S	800 -	1200	1.30 -	3.10	(33 - 79)	48 (1200)		5	
FCSM-120/40-1200-S	1500 -	2500	1.75 -	4.10	(44 - 104)	48 (1200)		5	
FCSM-177/63 600-S			2.75 -	6.05	(70 - 154)	24 (600)		6	
FCSM-177/63-1200-S			2.75 -	6.05	(70 - 154)	48 (1200)		5	

### Cable rejacketing

FCSM-9/3-A/U	#14 -	#8	0.15 -	0.30	(4 - 8)		100 (30)		
FCSM-19/6-A/U	#6 -	#2	0.25 -	0.65	(6 - 17)		100 (30)		825 (250)
FCSM-28/9-A/U	#2 -	4/0	0.40 -	0.95	(10 - 24)		65 (20)		495 (150)
FCSM-38/12-A/U	1/0 -	350	0.50 -	1.30	(13 - 33)		50 (15)		395 (120)
FCSM-51/16-A/U	250 -	500	0.70 -	1.75	(18 - 44)		40 (12)		330 (100)
FCSM-68/22-A/U	600 -	1000	0.95 -	2.30	(25 - 58)		80 (24)		
FCSM-90/30-1500/U	800 -	1200	1.30 -	3.10	(33 - 79)	60 (1500)		5	
FCSM-120/40-1500/U	1500 -	2500	1.75 -	4.10	(44 - 104)	60 (1500)		5	
FCSM-177/63-1500/U			2.75 -	6.05	(70 - 154)	60 (1500)		5	

\*Length tolerance to ±2 percent.

### Ordering information

- Select the appropriate catalog number based on typical dimensions for low-voltage insulated cable. Confirm selection with cable dimensions to assure proper sizing.
- Connectors or lugs not included.
- If sealing is needed with uncoated FCSM tubing (-/U), order S-1052 separately from page 49.
- Tubing may be field-cut for shorter requirements.

- Bulk packaging is available for cut-lengths. Contact your Tyco Electronics representative for additional information.

- For testing information, please refer to page 20.
- Related test reports: EDR-5133, EDR-5134, EDR-5141

