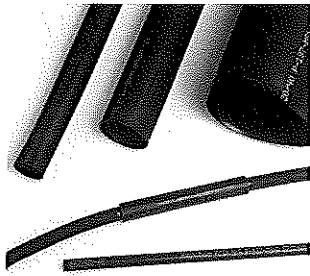


# Heat-Shrink Tubing



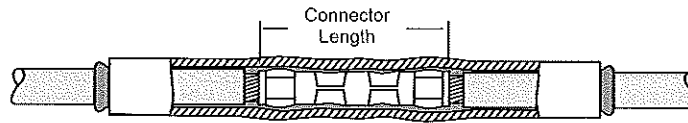
## FCSM Tubing Heavy-Wall Flame Retardant Tubing (2000 V)

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.

- 3:1 shrink ratio and an unlimited shelf life when stored under normal conditions
- Uses 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 re-jacketing only
- Sealant-coated or uncoated tubing may be used for jacket repair on cable to 35 kV. Qualified to ANSI C119.1; also rated to IEEE 383 (Vertical Tray Flame Test) and ICEA S-19-81. FCSM is also MSHA approved (P-07-KA090013-MSHA).

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/feet (millimeters/meters)

Catalog Number	1000-V Insulated Conductor Size (AWG/kcmil)	General Use Range (Min.-Max.)	Tube Length*	Std. Pack		Bulk Option Ft.(m)/Roll
				Ft.(m)/Roll	Pcs/Box	
<b>In-Line Splice Or Terminal Lug Seal (With Sealant)</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	
<b>Cable Re-jacketing (Without Sealant)</b>						
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  $\pm 2$  percent.

### Ordering Information

1. Select the appropriate catalog number based on typical dimensions for low-voltage insulated cable. Confirm selection with cable dimensions to assure proper sizing.
2. Connectors or lugs not included.
3. If sealing is needed with uncoated FCSM tubing (-/U), order S-1052 separately.
4. Tubing may be field-cut for shorter requirements.
5. Bulk packaging is available for cut-lengths. Contact your Tyco Electronics representative for additional information.
6. Related test reports: EDR-5133, EDR-5134, EDR-5141.

For connector information refer to the Connectors and Terminals section of this catalog.