

## WCSM

*Heavy-wall standard tubing for 1/C low-voltage power cable (1000 V)*



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

Use sealant-coated tubing (-S) as a sealed in-line splice or terminal lug seal for non-flame-retardant applications. Use uncoated tubing (-A/U and /U) for cable re-jacketing and mechanical protection only.

Sealant-coated WCSM tubing (-S designation) is UL listed per 486D (file E91151), certified to CSA C22.2, qualified to ANSI C119.1-1986, and rated to Western Underground Guide

2.5. Also RUS accepted for use as a secondary tap or splice cover, and for use as jacket restoration materials on JCN cable. WCSM tubing may be used for jacket repair on cables to 35 kV.

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

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

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

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

#### Adhesive-coated cut-length tubing

Catalog number*	1000-V conductor size (AWG/kcmil)	General use range (min. – max.)	Cut-piece length**	Standard package (pcs/box)
WCSM-9/3-150-S	#14 – #8	0.15 – 0.30 (4–8)	6 (150)	50
WCSM-9/3-300-S	#14 – #8	0.15 – 0.30 (4–8)	12 (300)	50
WCSM-9/3-1200-S	#14 – #8	0.15 – 0.30 (4–8)	48 (1200)	25
WCSM-13/4-150-S	#12 – #6	0.20 – 0.45 (5–11)	6 (150)	50
WCSM-13/4-1200-S	#12 – #6	0.20 – 0.45 (5–11)	48 (120)	25
WCSM-20/6-150-S	#8 – #2	0.25 – 0.70 (6–18)	6 (150)	50
WCSM-20/6-225-S	#8 – #2	0.25 – 0.70 (6–18)	9 (225)	50
WCSM-20/6-300-S	#8 – #2	0.25 – 0.70 (6–18)	12 (300)	50
WCSM-20/6-1200-S	#8 – #2	0.25 – 0.70 (6–18)	48 (1200)	25
WCSM-33/8-150-S	#4 – 4/0	0.35 – 1.20 (9–30)	6 (150)	50
WCSM-33/8-225-S	#4 – 4/0	0.35 – 1.20 (9–30)	9 (225)	50
WCSM-33/8-300-S	#4 – 4/0	0.35 – 1.20 (9–30)	12 (300)	50
WCSM-33/8-1200-S	#4 – 4/0	0.35 – 1.20 (9–30)	48 (1200)	25
WCSM-43/12-150-S	1/0 – 400	0.50 – 1.55 (13–39)	6 (150)	40
WCSM-43/12-225-S	1/0 – 400	0.50 – 1.55 (13–39)	9 (225)	40
WCSM-43/12-300-S	1/0 – 400	0.50 – 1.55 (13–39)	12 (300)	40
WCSM-43/12-1200-S	1/0 – 400	0.50 – 1.55 (13–39)	48 (1200)	10
WCSM-51/16-100-S	250 – 500	0.70 – 1.75 (18–44)	4 (100)	100
WCSM-51/16-225-S	250 – 500	0.70 – 1.75 (18–44)	9 (225)	30
WCSM-51/16-300-S	250 – 500	0.70 – 1.75 (18–44)	12 (300)	30
WCSM-51/16-1200-S	250 – 500	0.70 – 1.75 (18–44)	48 (1200)	10
WCSM-70/21-300-S	400 – 1000	0.90 – 2.45 (23–62)	12 (300)	15
WCSM-70/21-450-S	400 – 1000	0.90 – 2.45 (23–62)	18 (450)	15
WCSM-70/21-600-S	400 – 1000	0.90 – 2.45 (23–62)	24 (600)	10 or 100
WCSM-70/21-1200-S	400 – 1000	0.90 – 2.45 (23–62)	48 (1200)	10
WCSM-105/30-300-S	800 – 1250	1.30 – 3.70 (33–94)	12 (300)	15
WCSM-105/30-1200-S	800 – 1250	1.30 – 3.70 (33–94)	48 (1200)	5
WCSM-130/36-300-S	1500 – 2500	1.60 – 4.20 (41–107)	12 (300)	10
WCSM-130/36-450-S	1500 – 2500	1.60 – 4.20 (41–107)	18 (450)	20
WCSM-130/36-1200-S	1500 – 2500	1.60 – 4.20 (41–107)	48 (1200)	5

\*Catalog numbers with -S designation are suitable for sealed electrical insulation to 1000 V.

\*\*Length tolerance to ±2 percent.

Can be used for multi-conductor LV splices using different tubings.

**Uncoated tubing**

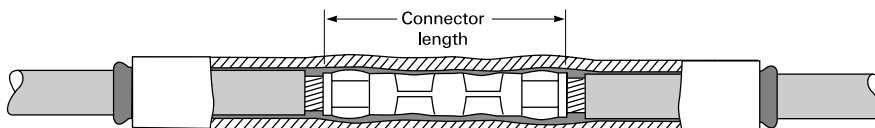
Catalog number*	1000-V conductor size (AWG/kcmil)	General use range (min. – max.)	Cut-piece length**	Standard package (ft/roll) (pcs/box)
WCSM-9/3-A/U	#14 – #8	0.15 – 0.30 (4 – 8)		100
WCSM-13/4-A/U	#12 – #6	0.20 – 0.45 (5 – 11)		100
WCSM-20/6-A/U	#8 – #2	0.25 – 0.70 (6 – 18)		100
WCSM-33/8-A/U	#4 – 4/0	0.35 – 1.20 (9 – 30)		65
WCSM-43/12-A/U	1/0 – 400	0.50 – 1.55 (13 – 39)		50
WCSM-51/16-A/U	250 – 500	0.70 – 1.75 (18 – 44)		40
WCSM-70/21-A/U	400 – 1000	0.90 – 2.45 (23 – 62)		40
WCSM-90/30-1500/U	800 – 1200	1.30 – 3.10 (33 – 79)	60	5
WCSM-130/36-1500/U	1500 – 2500	1.60 – 4.20 (41 – 107)	60	5

\*Catalog numbers with A/U and /U designations are for cable re-jacketing only.

\*\*Length tolerance to ±2%.

**Ordering information**

1. Select the appropriate catalog number based on typical dimensions for low-voltage insulated cable. Confirm selection with dimensions to assure proper sizing.
2. UL listing applies to sealant-coated (-S) WCSM-9/3 through -70/21 only. WCSM-105/30 and -130/36 are not UL listed.
3. Package does not contain connectors or lugs. Installed connector or lug diameter must be within use range.
4. If sealing is needed with WCSM-A/U uncoated tubing, order S-1052 sealant separately from page 51.
5. WCSM tubing may be field-cut for shorter requirements.
6. Bulk packaging is available for cut lengths. Consult your Tyco Electronics representative for information.
7. For testing information, please refer to page 20.
8. Related test report: EDR-5 139



Certified C22.2  
No. 198.2



LISTED 96J4  
Direct burial insulation covered for listed pressure connectors  
SUBMERSIBLE