



HEAT-SHRINKABLE WRAPAROUND (CNSM) FOR CABLE REPAIR AND JOINT OUTER REJACKETING

KEY FEATURES

- Wraparound sleeve used for repair of damaged cable jackets and for re-jacketing of low and medium voltage joints
- Extended size range can accommodate cables with diameters ranging from 8 to 200 mm
- High mechanical strength, impact resistance and superior electrical performance
- Halogen-free material content, non-corrosive and non-toxic smoke in event of fire
- Compliant to RoHS and REACH regulations
- Stabilized against UV Irradiation

TE Connectivity's (TE) Raychem CNSM heat-shrinkable heavy-wall wraparound is designed for sealing and outer protection on Low and Medium voltage cables and accessories. The sealant exhibits excellent bonding and sealing characteristics to all materials commonly used in the various cable and sheath constructions. CNSM is made of an abrasion and corrosion resistant semi-rigid material, and is a result of our extensive capability in materials technology.

The CNSM wraparound sleeves are suitable for repair of all types of unpressurised cable types, aerial, buried or ducted, with polyethylene, rubber or metal jackets. The hotmelt adhesive coated on the sleeve ensures a permanent reliable watertight seal. The excellent split resistance of the composite structure offers superior resistance to mechanical abuse during and after the installation. The outer surface of the wraparounds is treated with a temperature-indicating system to facilitate uniform heating during installation. In addition, white lines are painted on the flat side of the rails which become visible through the channel openings as installation is completed. The sleeve has a flap which is designed to seal longitudinal seam during installation.

Shelf-life restrictions usually associated with tapes or resins or cold-applied products do not apply and the completed installation may be taken into service at once. Raychem wraparound CNSM is fast and easily installed and has proven its long term reliability in harsh environmental conditions.

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.



TESTING

Physical Characteristic	Test Method	Material Requirements
Burst Strength	ISO 3303 -A	2000 N min.
Accelerated ageing 7 days at 150 °C ± 2 °C		
Burst Strength	ISO 3303-A	1600 N min.
Low Temp Flexibility	- 15 °C ± 3 °C	no sleeves cracking, adhesive lifting or cracking at largest application diameter
Dielectric Strength	ASTM D149	≥ 10 kV/mm min.
Water Absorption	ASTM F1249	≤ 0.3% max.
Corrosion	ASTM D 2671 Part A	No corrosion after 16h at 150 °C
Weathering	The material from which CNSM is manufactured contains carbon black (≥ 2,0 %) to protect it from ultra-violet light	
Application characteristics		
Operating temperature range	- 30 °C up to + 100 °C	
Installation/ shrinking temp	> 120 °C	
Shrink ratio	> 3 : 1	
Longitudinal shrinkage free recovered	≤ 5 %	

Characteristics at a glance

- Cross-linked polyolefin, Thick wall
- Woven-reinforced composite laminate material
- Coated with hot melt adhesive
- Colour black, outside coated with green thermo-sensitive paint
- Shrinkage ratio 3:1
- Resistant to chemical agents
- Stabilized against UV rays
- Halogen-free, non-corrosive, free of lead and aluminium
- High tensile strength and mechanical robustness

Applications in

- Cable repair
- Outer re-jacketing of joints, in low up to high voltage applications
- Protection against moisture and pressure
- Mechanical protection

PRODUCT SELECTION INFORMATION

Description	Application Range (mm)		Diameter		Wall Thickness	
	min.	max.	Recovered max.	Expanded min.	Expanded nom	Recoverd min.
CNSM 43/ 8	8	43	8	53	1,1	3
CNSM 55/12	12	55	12	66	1,1	3
CNSM 75/15	15	75	15	84	1,1	3
CNSM 84/20	20	84	20	92	1,1	3
CNSM 100/25	25	100	25	115	1,1	3
CNSM 125/30	30	125	30	136	1,1	3
CNSM 146/38	38	146	38	162	1,1	3
CNSM 164/42	42	164	42	176	1,1	3
CNSM 200/50	50	200	50	216	1,1	3

All sizes are available in the standard lengths 1000 mm. Other lengths are available, please contact your local TE Energy sales representative.

ORDERING INFORMATION

CNSM wraparound - coated with hot melt adhesive /239

CNSM-43/8-1000/AC(S5)
CNSM-55/12-1000/AC(S5)
CNSM-75/15-1000/AC(S5)
CNSM-84/20-1000/AC(S5)
CNSM-100/25-1000/AC(S5)
CNSM-125/30-1000/AC(S5)
CNSM-146/38-1000/AC(S5)
CNSM-200/50-1000/AC(S5)

Other standard length 250, 500, 750, 1200, 1500 mm available. Please contact your local TE Energy sales representative.

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