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3M Technical Data Sheet

RoHS
2002/95/EC
REACH
1907/2007/EC

3M™ HDCW Series Heat Shrinkable Wraparound Sleeve kits

Description

The HDCW Wraparound Heat Shrink Cable Repair Sleeve is designed to repair damaged cable sheaths. It is also suitable for use with cable joints and as additional corrosion protection on undamaged cables.
Quick and easy to apply, it provides maximum protection against mechanical stress, even in the most aggressive environments. The inner wall of the sleeve is coated with hot melt adhesive to achieve a safe and watertight bond with the cable and give a perfect seal when heat is applied, while a corrosion proof metal clip is used to fully close the sleeve.

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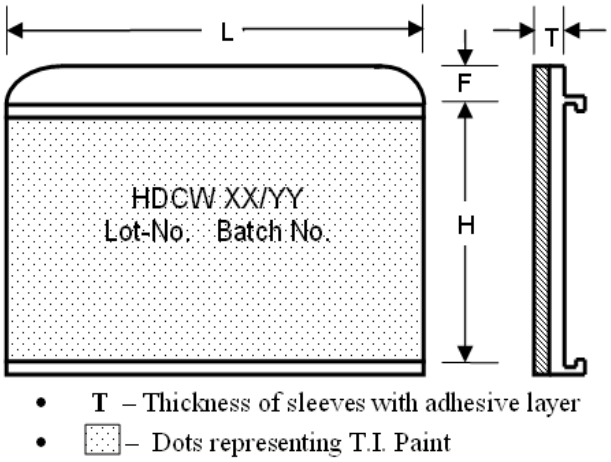
Technical Information

The Wraparound Sleeves are made from thermally stabilised cross linked weather resistant polymeric material. The sleeves are internally coated with Hot Melt Adhesive. The outer surface has thermocromic paint, which changes the colour after reaching the right Heat Shrink Temperature. The materials used are halogen free.

Applications

HDCW is ideal to quickly and safely repair damaged cable sheaths. It may also be used with joints and as additional corrosion protection on undamaged cables.

Dimensions



- T – Thickness of sleeves with adhesive layer
- ⋰⋱ – Dots representing T.I. Paint

Size	H/mm	F/mm	T/mm
HDCW 35/10	155	18	0,9
HDCW 55/15	175	18	0,9
HDCW 80/25	260	30	0,9
HDCW 110/30	355	30	0,9
HDCW 140/40	455	30	0,9

Application Range

Kit Reference	Standard Length (mm)	Sleeve Diameter	
		Recovered (max) mm	**As supplied (min) mm**
HDCW 35/10	250, 500, 750, 1000, 1200	10	35
HDCW 55/15	250, 500, 750, 1000, 1200	15	55
HDCW 80/25	250, 500, 750, 1000, 1200	25	80
HDCW 110/30	250, 500, 750, 1000, 1200	30	110
HDCW 140/40	250, 500, 750, 1000, 1200	40	140

Material Characteristics

Characteristics	Value	Test Method
Physical Properties		
Tensile Strength	17,5 N / sqmm	ISO R-527
Ultimate elongation	300%	ISO R-527
water absorbtion in 24 hrs	0,1%	ASTM D-570
Torchability	No split	TE 201 AOL
ECSR 48 hrs at 50°C	No cracks	ASTM D-1693
Thermal Ageing Tests 120°C 500 hrs		
Tensile Strength	15N /sqmm	ISO R-527
Ultimate elongation	200%	ISO R-527
Electrical Properties		
Dielectrical Strength	12 kV/mm	ASTM D-149
Chemical Properties		
Chemical resistance after immersion in following liquids 0.1N sol. of NaSo, NaCl, NaOH(40%), H'SO(3%) for 24 hrs at room temperature	Good (No visual defects)	ISO 175
Tensile Strength	15 N/sqmm	ISO 175
Ultimate elongation	200%	ISO 175
Temperature indicating paint colour conversion		
150°C for 30 minute	No change	Visual
250°C for 5 minute	Colour change	Visual

The above figures are average values, established to our best knowledge, but not to be used for specification purpose.