



Lloyd's  
Register

## LR Type Approval Certificate Extension

*This is to certify* that Certificate No. 95/30032(E4) for the undernoted products is amended, extended and renumbered as shown.

This certificate is issued to:

<b>PRODUCER</b>	3M ECC Europa B.V. Amsterdamseweg 61 3812 RR Amersfoort The Netherlands
<b>PLACE OF PRODUCTION</b>	3M ECC Europa B.V. Amsterdamseweg 61 3812 RR Amersfoort The Netherlands
<b>DESCRIPTION</b>	Heat shrink closures for electric cable joints on smooth surface armoured/unarmoured plastic and rubber insulated cables up to 1 kV
<b>TYPE</b>	HDT, HDT-A MDT, MDT-A
<b>APPLICATION</b>	Marine and Offshore use for the joining of electric cables
<b>STANDARD</b>	Manufacturer's specification
<b>Certificate No.</b>	95/30032(E5)
<b>Issue Date</b>	16 November 2015
<b>Expiry Date</b>	09 October 2020
<b>Sheet</b>	1 of 2

*Lloyd's Register EMEA*  
*P.O. Box 701, 3000 AS Rotterdam*

H.L. Reekers  
Rotterdam Type Approval  
Lloyd's Register EMEA

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**RATINGS**

	HDT/HDT-A	MDT/MDT-A
Bore supplied, mm	12-128	12-120
Bore recovered, mm	3-38	3-40
Dielectric constant K	2.72	1.72
Operating temperature	-35° to 130° C	

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify LR of any modification or changes to the equipment in order to obtain a valid certificate."*

*The attached Design Appraisal Document No. ROT.TA/1590330 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

*This certificate is no longer valid when Standards or Rules are amended.*

*All other details remain as the previous certificate no 95/30032(E5) to which this extension should be attached.*

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