



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 03/ 00032(E2) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	UNIKA Universal Kablo San. Ve Tic. A.S. Yeni Sulun Sok. No:5 Iclevent 34330 Besiktas Istanbul, Turkey
PLACE OF PRODUCTION	Velikoy Sanayi Cerkezkoy Tekirdag, 59550 Turkey
DESCRIPTION	Halogen-free, low smoke, flame retardant / fire resistant and flame retardant, XLPE insulated, SHF1 & SHF2 sheathed, single or multi unit, armoured / unarmoured shipboard and offshore telecommunication cables (250V)
TYPE	U-HFAT m, U-HFAT m EMC, U-HFAT m(I), U-HFAT m(C), U-HFAT m(I+C), U-HFT m, U-HFT m(I), U-HFT m(C), U-HFT m(I+C), U-HFFRAT m, U-HFFRAT m(I), U-HFFRAT m(C), U-HFFRAT m(I+C), U-HFFRT m, U-HFFRT m(I), U-HFFRT m(C) & U-HFFRT m(I+C)
APPLICATION	Marine, offshore and industrial use
STANDARD	Construction: To IEC 60092-350 & IEC 60092-376 Insulation: XLPE compound to IEC 60092-360 Outer sheath: SHF1 & SHF2 compound to IEC 60092-360
Certificate No.	03/ 00032(E3)
Issue Date	20 April 2017
Expiry Date	19 April 2022
Sheet	1 of 3



Andrei Petrov
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Halogen free properties: IEC 60754-1 & 2
Smoke emission: IEC 61034-1 & 2
Flame retardance: IEC 60332-3-22
Fire resistance: IEC 60331-21
LR Type Approval System Test Specification No. 1 - 2015.

RATINGS

250V
Maximum conductor temperature: 90°C

Type: U-HFAT m, U-HFAT m EMC

No. of pairs	Cross sectional area (mm²)
1, 2, 3, 4, 5, 7, 10, 12, 14, 19 & 24	0.5 & 0.75
No. of triples 1	0.5 & 0.75
No. of quads 1	0.5 & 0.75

Type: U-HFAT m(I), U-HFAT m(C), U-HFFRAT m, U-HFFRAT m (I), U-HFFRAT m (C) & U-HFFRAT m (I+C)

No. of pairs	Cross sectional area (mm²)
1, 2, 3, 4, 5, 7, 10, 12, 14, 16, 19, 24, 27 & 37	0.5, 0.75, 1, 1.5 & 2.5
No. of triples 1, 2, 3, 4, 5, 7 & 10	0.5, 0.75, 1, 1.5 & 2.5
No. of quads 1, 2, 3, 4, 5 & 7	0.5, 0.75, 1, 1.5 & 2.5

Type: U-HFAT m(I+C)

No. of pairs	Cross sectional area (mm²)
1, 2, 3, 4, 5, 7, 10, 12, 14, 16, 19, 24, 27 & 37	0.5, 0.75, 1, 1.5 & 2.5
No. of triples 1, 2, 3, 4, 5 & 7	0.5, 0.75, 1, 1.5 & 2.5
No. of quads	

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1, 2, 3, 4, 5 & 7	0.5, 0.75, 1, 1.5 & 2.5
Type: U-HFT m, U-HFT m(I), U-HFT m(C), U-HFT m(I+C), U-HFFRT m, U-HFFRT m (I) & U-HFFRT m (C)	
No. of pairs	Cross sectional area (mm²)
1, 2, 3, 4, 5, 7, 10, 12, 14, 16, 19, 24 & 37	0.5, 0.75, 1, 1.5 & 2.5
No. of triples	
1, 2, 3, 4, 7, 10 & 19	0.5, 0.75, 1, 1.5 & 2.5
No. of quads	
1, 2, 3, 4, 7, 10 & 19	0.5, 0.75, 1, 1.5 & 2.5
Type: U-HFFRT m (I+C)	
No. of pairs	Cross sectional area (mm²)
1, 2, 3, 4, 5, 7, 10, 12, 14, 16, 19, 24 & 37	0.5, 0.75, 1, 1.5 & 2.5
No. of triples	
1, 2, 3, 4, 7, 10 & 19	0.5, 0.75, 1, 1.5 & 2.5
No. of quads	
1, 2, 3, 4, 7, 10 & 19	0.5, 0.75, 1, 1.5 & 2.5

"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 Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 03/00032(E3) and its supplementary Type Approval Terms and Conditions form part of this Certificate

All other details remain as the previous Certificate No. 03/ 00032(E2) & No. 12/ 00037 to which this extension should be attached.

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