



Germanischer Lloyd

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 58 627 - 08 HH

Company Pysmian Cables y Sistemas, S.L.  
Carretera C-15 Km 2  
08800 Vilanova I La Geltru, SPAIN

Product Description Halogen free XLPE insulated and thermoplastic halogen free compound sheathed shipboard communication cable

Type AFUMEX NAU XTCUA (CAR1); FIRS NAU XTCUA (CAF1); NAU XTCUA (IOR1); FIRS NAU XTCUA (IOF1); NAU XHTCUA (IPR1); FIRS NAU XHTCUA (IPF1)

Environmental Category None

Technical Data / Range of Application  
Rated voltage: 250 V  
Operating temp.: -25 up to +90° C  
Conductor: Bare, annealed, stranded copper class 2  
Insulation: HF XLPE or Mica glass tape + HF XLPE for ...FIRS... type  
Individual screen: Al-polyester tape with drain wire  
Bedding: Wrapped polyester tape  
Armour: Bare copper wire braid  
Outer sheath: Thermoplastic halogen free compound SHF1

Number of cores Cross-sectional areas:  
2 to 19 1,5 mm<sup>2</sup> for CAR1 and CAF1  
1 x 2 & 1 x 4 0,75 mm<sup>2</sup> for IOR1 & IOF1  
4 x 2 to 12 x 2 0,75 mm<sup>2</sup> for IOR1 & IOF1  
2 x 2 to 12 x 2 0,75 mm<sup>2</sup> for IPR1 & IPF1

Test Standard IEC 60092-376:2003; 60092-351:2000; 60092-359:1999; 60332-1-2:2004; IEC 60332-3-22:2000; 60331-21:1999; 60754-1-2:1997; 61034-1-2:2005

Documents Test report : Pysmian Cables y Sistemas, S.L. No. 2802/98-P3

Remarks None

Valid until 2013-03-26

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Type Approval Symbol



File No. I.N.01

Hamburg, 2008-03-27

Germanischer Lloyd

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This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".