Certificate No: LR2002995TA
Issue Date: 11/06/2020
Expiry Date: 07/04/2025

# Type Approval Certificate

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

| | |
|---|---|
| **Manufacturer** | **Draka Comteq Germany GmbH & Co. KG** |
| **Address** | Wohlauer Str. 15, Nürnberg, 90475, Germany |
| **Type** | Cables Control, Telecommunication And Instrumentation |
| **Description** | Halogen free, low smoke emission, LSFH-FR (SHF1) sheathed, oil resistant, individually foil screened twisted pair data transmission cable.<br>ToughCat5e S/FTP(1) class 2 stranded<br>ToughCat7 S/FTP(2) class 2 stranded<br>ToughCat7S S/FTP(3) class 1 solid<br>(1); (2); (3) see ratings |
| **Trade Name** | ToughCat5e S/FTP, ToughCat7 S/FTP, ToughCat7S S/FTP, |
| **Application** | Communication cable for fixed installation in ships |
| **Specified Standard** | IEC 61156-5: 2009<br>EN 50173-1: 2010<br>EN 50288-2-1: 2013<br>EN 50288-4-1: 2013<br>ISO / IEC 11801: 2011 |
| **Ratings** | Operational Voltage: 75V<br>Configuration(1): 4x2 / 0.22 $mm^2$<br>Configuration(2): 4x2 / 0.27 $mm^2$ |

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**Thorsten Wolff**

Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register Group

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Configuration(3): 4x2 / 23AWG

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 Design Appraisal Document No. HTS/ETS 39830-20 HN/JK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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