

TYPE APPROVAL CERTIFICATE

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

Certificate No.	58 879 - 08 HH
Company	Reichle & De-Massari AG Binzstrasse 32 8620 Wetzikon, SWITZERLAND
Product Description	Halogen free foam-PE insulated and FRNC sheathed twisted pairs data transmission cables
Type	R&M freenet S/FTP Cat 7
Environmental Category	None
Technical Data / Range of Application	R&M freenet S/FTP Cat 7 Conductor: Bare copper wire, 0,56mm (AWG 23) Insulation: Foam skin PE diameter 1,4 mm Twisting: 2 cores to the pair Pair screen: Al-laminated plastic foil Cable lay up: 4 pairs (PIMF) to the core Screen: Copper braid, tinned Sheath: FRNC, thermoplastic copolymer (SHF1) Electrical properties: Loop resistance: $\leq 150 \Omega / \text{km}$ Mutal capacitance: Nom. 43 nF/km at 800 Hz Character. Impedance: 100 Ω More propertiees according to Draka data sheet Mechanical properties: Temperature range: -20°C to +60°C (operating) Bending radius: $\geq 30 \text{ mm}$ Application limitations: The R&M freenet S/FTP CAT 7 900 Mhz. Cable can be used for non-essential data communications. Place of production: Draka Comteq / Cable Solutions EMEA, Wohlauser Str.15 D-90475 Nürnberg Measures for limitation of the propagation of fire along cable bundles are required (fire stops) in case of installation deviation mentioned in IEC 60332-3-24
Test Standard	EN 50173-1:2002; EN 50288-4-2:2003; IEC 11801:2002; IEC 61156-5:2002 IEC 60332-1:1993; IEC 60332-3-24:2000; IEC 60754-2:1997; IEC 61034:1997
Documents	Test report : Draka Comteq reference 2006035_DA_summery, dated of 19.09.2006
Remarks	This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.

Valid until **2017-01-10**

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Hamburg, 2015-03-10

Type Approval Symbol

