Certificate No: LR25148567TA
Issue Date: 11/07/2025
Expiry Date: 30/09/2029

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	**CCI Cable Service S.r.l.**
Address	Via Ex Casello Autostrada, 4, Bernate Ticino (MI), 20010, Italy
Place of Production	CCI Cable Service S.r.l. Via Casilina km 78,600, Ferentino (FR), 03013, Italy
Type	Power Cables
Description	Halogen-free, low smoke, flame retardant / fire resistant, XLPE or EPR or HEPR insulated, HF sheathed, UV and Ozone resistant, armoured and unarmoured shipboard power and VFD(EMC) cables (0.6/1.0 kV & 1.8/3.0 kV) WF-K 1000 & XI & XI-2 Flame retardant, unarmoured WF-K 1000 FR & XI 331 & XI-2 331 Flame retardant & fire resistant, unarmoured WF-K 1000 A & XAI & XAI-2 Flame retardant, armoured WF-K 1000 A EMC, WF-K 3000 A VFD & XAI VFD(EMC) & XAI-2 VFD(EMC) Flame retardant, armoured WF-K 1000 A FR & XAI 331 & XAI-2 331 Flame retardant & fire resistant, armoured
Trade Name	WF-K 1000 & XI & XI-2, WF-K 1000 FR & XI 331 & XI-2 331, WF-K 1000 A & XAI & XAI-2, WF-K 3000 A VFD & WF-K 1000 A EMC, XAI VFD(EMC) & XAI-2 VFD(EMC), WF-K 1000 A FR & XAI 331 & XAI-2 331
Application	Fixed wiring on ships, offshore and industrial installations

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Maurizio Crucil

Electrical & Control Technical Manager - South Europe to Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Specified Standard

Conductors: Plain or tinned annealed copper flexible class 2 or class 5
IEC60228 + mica tape (fire resistant)
Earth conductor for VFD(EMC) cables
Insulation: XLPE or EPR or HEPR to IEC 60092-360
Filler: HF compound or fiber glass ropes HF compound sheathed (if any)
Separator: Halogen free, non hygroscopic tape (if any)
Inner Sheath: SHF1 or SHF2 (if any)
Armour: Plain / tinned copper or galvanised steel wire braiding
Metallic laminated tape for VFD(EMC) cables
Outer Sheath: SHF1 or SHF2 to IEC 60092-360

Construction:
IEC 60092-350, IEC 60092-360
Flameretardance: IEC 60332-1
Flameretardance: IEC 60332-3-22 Cat A (bunched cables)
Fire resistance: IEC60331-1&2 (120min)
Corrosion & Halogen free:IEC 60754-1/2 IEC 60684-2
Smoke emission: IEC 61034-1/2
Cold bend and impact at low temp (-40°C): CSA C22.2 No. 0.3-09 No. 38-18
Cold bend, impact and elongation at low temp (-50°C)
UV resistance UL 1581:2022 par.1200
Ozone resistant IEC60092.360:2021

Ratings

Number of cores: From 1 to 37
Cross-sectional area (mm2): From 1 to 300

Other Conditions

Maximum conductor temperature: 90°C
All other details remain as the previous Certificate No. LR1900560TA to which this extension should be attached.

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Type Approval Certificate

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.

Previous Version: LR1900560TA-06

The Design Appraisal Document TSO-25-038950-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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