Certificate No: LR2525263TA
Issue Date: 01/04/2025
Expiry Date: 31/03/2030

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	**Tele-Fonika Kable S.A.**
Address	ul.Hipolita Cegielskiego 1, Myslenice, 32-400, Poland
Place of Production	Tele-Fonika Kable S.A. ul.Wielicka 114, Kraków, 30-663, Poland
Type	Control Cables
Description	Single and multicore elastomer insulated and sheathed cables, heat resisting, oil resisting, flame retardant with reduced halogen acid emission (<5%) or low smoke and halogen acid emission (<5%) with or without wire braid armour 150/250 V
Trade Name	657(*) (i) or (c) SW2, 658(*) (i) or (c) SW2, 657(*) (i) or (c) SW4, 658(*) (i) or (c) SW4
Application	Instrumentation and communication cables for fixed installations in ships, offshore and industrial installations
Specified Standard	BS 6883: 1999 IEC 60754-1: 2011+ AMD1: 2019 PN EN 61034: 2010 + AMD1: 2014 PN EN 60332-3-22: 2018 IEC 60754-2: 2011 + AMD1: 2019

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Thorsten Wolff

Electrical & Control - Senior Specialist to
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Ratings

Single and multicore elastomer insulated and sheathed cables, heat resisting, oil resisting, flame retardant with reduced halogen acid emission (<5%) or low smoke and halogen acid emission (<5%) with or without wire braid armour.

658(*) (i) or (c) SW2
Reduced halogen acid gas with galvanised steel or tinned annealed copper wire braid

657(*) (i) or (c) SW2
Reduced halogen acid gas

658(*) (i) or (c) SW4
Low smoke and halogen acid gas with galvanised steel or tinned copper wire braid

657(*) (i) or (c) SW4
Low smoke and halogen acid gas

Rated voltage: 150/250 V
Max. rated conductor temperature: 90 °C
Max. short circuit temperature: 250 °C
Min. installation temperature: - 15 °C

657(*) (c) SW2 or SW4

Conductor (mm^2)	No. of pairs
0.75	3, 4, 7, 10,12, 14, 19, 20, 24, 27, 37
1.0	3, 7, 12, 20,24, 27, 37
1.5	3, 4, 7, 10,14, 19, 20, 24

Conductor (mm^2)	No. of triples
0.75	3, 7, 12
1.0	3, 7, 12

657(*) (i) SW2 or SW4

Conductor (mm^2)	No. of pairs

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0.75	1, 3, 7, 12,20, 27, 37
1.0	1, 3, 7, 12,20, 27, 37
1.5	1

Conductor (mm^2)	No. of triples
0.75	1, 3, 7, 12
1.0	1, 3, 7, 12

Conductor (mm^2)	No. of quads
0.75	1
1.0	1
1.5	1

658(*) (c) SW2 or SW4

Conductor (mm^2)	No. of pairs
0.75	2, 3, 4, 5,6, 7, 10, 12, 14, 19, 20, 27, 37
1.0	3, 5, 7, 10,12, 20, 27, 30, 37
1.5	3, 4, 5, 7,10, 12, 20, 24, 30
2.5	6, 12

Conductor (mm^2)	No. of triples
0.75	3, 7, 12
1.0	3, 7, 12
1.5	4, 6, 8, 12

658(*) (i) SW2 or SW4

Conductor (mm^2)	No. of pairs, triples, quads
0.75	1
1.0	1
1.5	1
2.5	1

(c) - collectively screened pairs,
(i) - individually screened pairs,

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(*) - number of pairs, triples, quads

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: LR2002634TA

The Design Appraisal Document TSO-24-025952/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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