



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 | Motioncables Srl |
| Address | Via Guido Rossa, 8/12, Melzo (MI), 20066, Italy |
| Type | Cables |
| Description | Drag Chain Motor Supply Cables |
| Trade Name | Motion Wire HP 600, Motion Wire HP 600 C, Motion Multiwire HP 600, Motion Multiwire HP 600 C, Motion Power HP 600, Motion Power HP 600 C, Motion Servo HP 600 C |
| Application | Appliance Wiring in Shipboard Installations in accordance with Lloyd's Register Type Approval System - Test Specification No. 3, December 2020. |
| Specified Standard | UL 758:2014, IEC 60332-1-2:2004+A1:2015, IEC 60754-1:2011+A1:2019. |
| Ratings | See Appendix. |
| Other Conditions | Use shall be limited to the application and in accordance with manufacturer's installation instructions. |

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

Matteo Roiaz

Electrical & Control - Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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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 LR2443126DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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APPENDIX to Certificate no. LR2443126TA

TYPE

| | |
|---------------------------|---|
| Motion Wire HP 600 | Unshielded, single core |
| Motion Wire HP 600 C | Shielded, single core |
| Motion Multiwire HP 600 | Unshielded, multiple core |
| Motion Multiwire HP 600 C | Shielded, multiple core |
| Motion Power HP 600 | Unshielded, multiple core |
| Motion Power HP 600 C | Shielded, multiple core |
| Motion Servo HP 600 C | Shielded, multiple main cores with additional pair, triple, quad etc. |

RATINGS

Operating voltage: 1000 V

Maximum rated conductor temperature: 90 °C

| | |
|------------------|---|
| Conductor: | Bare Copper, according to IEC 60228, Class 6 |
| Tape: | No Woven tape (Optional) |
| Insulation: | Polypropylene compound to UL 1581 Table 50.139 |
| Shield: | Tinned Copper Wire Braid \geq 85% |
| Separator: | No Woven tape (Optional) |
| Outer Sheath: | Polyurethane compound to UL 1581 Table 50.227.1 |
| Flame retardant: | IEC 60332-1-2:2004+A1:2015 |
| Halogen Free: | IEC 60754-1:2011+A1:2019 |

RANGE

| Cable Type | Num. of Cores | Cross Section Area [mm²] |
|---------------------------|-----------------------------------|--|
| Motion Wire HP 600 | 1 | 6 to 400 |
| Motion Wire HP 600 C | 1 | 6 to 400 |
| Motion Multiwire HP 600 | 2 to 36 | 0.14 to 2.5 |
| Motion Multiwire HP 600 C | 2 to 36 | 0.14 to 2.5 |
| Motion Power HP 600 | 3 to 7 | 4 to 120 |
| Motion Power HP 600 C | 3 to 7 | 4 to 120 |
| Motion Servo HP 600 C | See Manufacturer's specifications | |