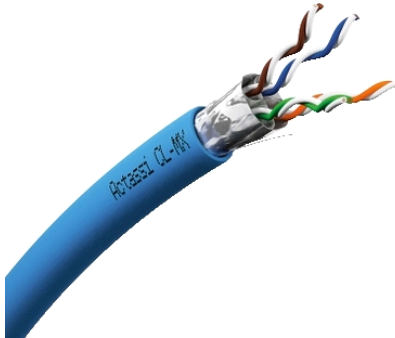


VDICD68X218

Actassi Cable LAN F/FTP 4P Cat6_A Euroclass D
550MHz LSZH 500m



Main

| | |
|---------------------------|--|
| Range | Actassi |
| Product or component type | Network cable |
| Cable packaging | Drum of 500 m |
| Colour tint | Blue |
| Cable shielding type | F/FTP with exclusive patented metallic crossfiller |

Complementary

| | |
|--|---|
| Localisation on device | Jacket : LSZH (low smoke zero halogen) Conductor : solid bare copper Wire insulation : PE (polyethylene) Screen : metallic crossfiller |
| Type of cable | 4 twisted-pairs cable |
| Communication network category | 6 _A |
| Communication port protocol | VoIP (Voice IP) PoE 15W (Power over Ethernet) PoE+ 30W (Power over Ethernet Plus) |
| Communication network type | 10GBASE-T |
| Return loss | Guaranteed: >= 23 dB Typical: 26 dB @4 MHz Guaranteed: >= 17.3 dB Typical: 22 dB @250 MHz Guaranteed: >= 25 dB Typical: 28 dB @16 MHz Guaranteed: >= 25 dB Typical: 28 dB @20 MHz Guaranteed: >= 23.6 dB Typical: 26.9 dB @31.25 MHz Guaranteed: >= 21.5 dB Typical: 25.3 dB @62.5 MHz Guaranteed: >= 20.1 dB Typical: 24.2 dB @100 MHz Guaranteed: >= 18 dB Typical: 22.5 dB @200 MHz Guaranteed: >= 17.3 dB Typical: 22 dB @300 MHz Guaranteed: >= 17.3 dB Typical: 22 dB @400 MHz Guaranteed: >= 17.3 dB Typical: 20.3 dB @500 MHz Guaranteed: >= 25 dB Typical: 28.26 dB @10 MHz Guaranteed: >= 19.4 dB Typical: 23.1 dB @125 MHz |
| Attenuation | 3.8 dB at 4 MHz 3.7 dB 7.5 dB at 16 MHz 6.9 dB 8.4 dB at 20 MHz 7.7 dB 10.5 dB at 31.25 MHz 9.6 dB 15 dB at 62.5 MHz 13.7 dB 19.1 dB at 100 MHz 17.5 dB 21.5 dB at 125 MHz 19.7 dB 27.6 dB at 200 MHz 25.2 dB 31.1 dB at 250 MHz 28.4 dB 34.3 dB at 300 MHz 31.32 dB 40.1 dB at 400 MHz 36.62 dB 45.3 dB at 500 MHz 41.4 dB 5.9 dB at 10 MHz 5.74 dB |
| Power sum near-end crosstalk [PS NEXT] | Guaranteed: 75 dB @4 MHz Guaranteed: 75 dB @10 MHz Guaranteed: 74.2 dB @16 MHz Guaranteed: 72.8 dB @20 MHz Guaranteed: 69.9 dB @31.25 MHz Guaranteed: 65.4 dB @62.5 MHz Guaranteed: 62.3 dB @100 MHz Guaranteed: 60.8 dB @125 MHz Guaranteed: 57.8 dB @200 MHz Guaranteed: 56.3 dB @250 MHz Guaranteed: 55.1 dB @300 MHz |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Guaranteed: 53.3 dB @400 MHz
Guaranteed: 51.8 dB @500 MHz

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|--|--|
| Power sum alien near-end crosstalk [PS ANEXT] | 67 dB at 4 MHz 67 dB at 10 MHz 67 dB at 16 MHz 67 dB at 20 MHz 67 dB at 31.25 MHz 65.6 dB at 62.5 MHz 58 dB at 200 MHz 56.5 dB at 250 MHz 55.3 dB at 300 MHz 53.5 dB at 400 MHz 52 dB at 500 MHz 62.5 dB at 100 MHz 61 dB at 125 MHz |
| Power sum attenuation to alien crosstalk ratio far-end [PS AACR-F] | 66.2 dB at 4 MHz 58.2 dB at 10 MHz 54.1 dB at 16 MHz 52.2 dB at 20 MHz 48.3 dB at 31.25 MHz 42.3 dB at 62.5 MHz 38.2 dB at 100 MHz 32.2 dB at 200 MHz 30.2 dB at 250 MHz 28.7 dB at 300 MHz 26.2 dB at 400 MHz 24.2 dB at 500 MHz 36.3 dB at 125 MHz |
| Attenuation to Crosstalk Ratio Far-end [ACR-F] | Guaranteed: 66 dB @4 MHz Guaranteed: 58 dB @10 MHz Guaranteed: 53.9 dB @16 MHz Guaranteed: 52 dB @20 MHz Guaranteed: 48.1 dB @31.25 MHz Guaranteed: 42.1 dB @62.5 MHz Guaranteed: 38 dB @100 MHz Guaranteed: 36.1 dB @125 MHz Guaranteed: 32 dB @200 MHz Guaranteed: 30 dB @250 MHz Guaranteed: 28.5 dB @300 MHz Guaranteed: 26 dB @400 MHz Guaranteed: 24 dB @500 MHz |
| Power sum attenuation crosstalk ratio far-end [PS ACR-F] | 63 dB 4 MHz 55 dB 10 MHz 50.9 dB 16 MHz 49 dB 20 MHz 45.1 dB 31.25 MHz 39.1 dB 62.5 MHz 35 dB 100 MHz 33.1 dB 125 MHz 29 dB 200 MHz 27 dB 250 MHz 25.5 dB 300 MHz 23 dB 400 MHz 21 dB 500 MHz |
| Near end crosstalk [NEXT] | Guaranteed: 75 dB Typical: 85.5 dB @4 MHz Guaranteed: 75 dB Typical: 85.5 dB @10 MHz Guaranteed: 72.9 dB Typical: 68.5 dB @31.25 MHz Guaranteed: 68.4 dB Typical: 62.7 dB @62.5 MHz Guaranteed: 65.3 dB Typical: 58.8 dB @100 MHz Guaranteed: 63.8 dB Typical: 57.45 dB @125 MHz Guaranteed: 60.8 dB Typical: 53.1 dB @200 MHz Guaranteed: 59.3 dB Typical: 51.2 dB @250 MHz Guaranteed: 75 dB Typical: 85.5 dB @16 MHz Guaranteed: 75 dB Typical: 85.5 dB @20 MHz Guaranteed: 58.1 dB Typical: 66.23 dB @300 MHz Guaranteed: 56.3 dB Typical: 64.18 dB @400 MHz Guaranteed: 54.8 dB Typical: 45.5 dB @500 MHz |
| Coupling attenuation | >= 75 dB from 30...100 MHz conforming to IEC 61156-5, ed. 2 type Ib) >= 75 - 20 x log ₁₀ (f / 100) dB from 100...1000 MHz conforming to IEC 61156-5, ed. 2 type Ib) |
| Transfer impedance | <= 30 mOhm/m 30 MHz conforming to IEC 61156-5, ed. 2 grade 1) <= 60 mOhm/m 100 MHz conforming to IEC 61156-5, ed. 2 grade 1) <= 10 mOhm/m 1...10 MHz conforming to IEC 61156-5, ed. 2 grade 1) |
| Input impedance | 100 Ohm at 1...500 MHz |
| Transverse conversion loss | >= 40 - 10 x log(f) dB from 1...250 MHz conforming to IEC 61156-5, ed. 2.1) |
| Segregation class | Class c conforming to EN 50174-2) |

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|------------------------------|---|
| Resistance unbalance | <= 2 % |
| Pulling force | 400 N |
| Bending radius | Minimum bending radius after installation : 4 x overall diameter Minimum bending radius during installation : 8 x overall diameter |
| Delay skew | 45 ns (f = 1...500 MHz) |
| Euroclass level | D |
| Nominal velocity propagation | 82 % |
| AWG gauge | AWG 23 |
| Calorific value | 595 MJ/km |
| Cable outer diameter | 7.3 mm |
| Cable weight | 54 kg |
| Targeted region | Europe |

Environment

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|--|---|
| ambient air temperature for installation | 0...50 °C |
| ambient air temperature for storage | -20...60 °C |
| temperature resistance | 60 °C |
| ambient air temperature for operation | -20...60 °C |
| directives | 2006/95/EC - low voltage directive 2011/65/EU - RoHS directive 305/2011/EU - construction product regulation |
| standards | Halogen gas evolution : IEC 60754-1 Acidity of combustion gases : IEC 60754-2 Smoke generation : IEC 61034 Performance : EN 50173-1 Flame propagation characteristics : IEC 60332-1 Installation standards : ISO/IEC 14763-2 Performance : EN 50288-10-1 Installation standards : EN 50174-1 Performance : IEC 61156-5 ed. 2.1 Installation standards : EN 50174-2 Performance : IEEE 802.3af Performance : IEEE 802.3at |

Offer Sustainability

| | |
|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1723 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |