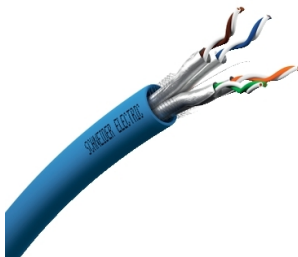# Product data sheet

Specifications

## Copper LAN cable, Actassi, S/FTP, 2x4P, Cat7A, Euroclass D, 1,2 GHz, LSZH, 500 m

VDICD658228

⚠ Discontinued on: Jun 30, 2021

⚠ **Discontinued**

## Main

| | |
|---|---|
| **Range** | Actassi |
| **Product Or Component Type** | Copper cable |
| **Cable Packaging** | Drum of 500 m |
| **Colour Tint** | Blue |
| **Cable Shielding Type** | S/FTP |

## Complementary

| | |
|---|---|
| **Type Of Cable** | 2x4 twisted-pairs cable |
| **Communication Network Category** | $7_A$ |
| **Remote Powering** | PoE 15W (Power over Ethernet)<br>PoE+ 30W (Power over Ethernet Plus)<br>4PPoE 100W (Power over Ethernet) |
| **Communication Network Type** | 10GBASE-T |
| **Minimum Return Loss** | Guaranteed: 20.1 dB at 100 MHz typical: 28.0 dB<br>Guaranteed: 17.3 dB at 250 MHz typical: 24.0 dB<br>Guaranteed: 17.3 dB at 500 MHz typical: 22.3 dB<br>Guaranteed: 15.1 dB at 1000 MHz typical: 20.1 dB |
| **Attenuation** | Guaranteed: 18.5 dB Typical: 17.0 dB @ 100 MHz<br>Guaranteed: 29.7 dB Typical: 27.3 dB @ 250 MHz<br>Guaranteed: 42.8 dB Typical: 39.4 dB @ 500 MHz<br>Guaranteed: 61.9 dB Typical: 56.9 dB @ 1000 MHz |
| **Power Sum Near-End Crosstalk [Psnext]** | Guaranteed: 72.4 dB Typical: 97.4 dB at 100 MHz<br>Guaranteed: 66.4 dB Typical: 91.4 dB at 250 MHz<br>Guaranteed: 61.9 dB Typical: 86.9 dB at 500 MHz<br>Guaranteed: 57.4 dB Typical: 81.3 dB at 1000 MHz |
| **Attenuation To Crosstalk Ratio Far-End [Acrf]** | Guaranteed: 55.3 dB Typical: 68.8 dB at 100 MHz<br>Guaranteed: 47.3 dB Typical: 59.7 dB at 250 MHz<br>Guaranteed: 41.3 dB Typical: 52.7 dB at 500 MHz<br>Guaranteed: 35.3 dB Typical: 46.3 dB at 1000 MHz |
| **Power Sum Attenuation Crosstalk Ratio Far-End [Psacrf]** | 52.3 dB at 100 MHz<br>44.3 dB at 250 MHz<br>38.3 dB at 500 MHz<br>32.3 dB at 1000 MHz |
| **Near End Crosstalk [Next]** | Guaranteed: 75.4 dB Typical: 100.4 dB at 100 MHz<br>Guaranteed: 69.4 dB Typical: 94.4 dB at 250 MHz<br>Guaranteed: 64.9 dB Typical: 89.9 dB at 500 MHz<br>Guaranteed: 60.4 dB Typical: 84.3 dB at 1000 MHz |
| **Coupling Attenuation** | >= 85 dB from 30…100 MHz conforming to IEC 61156-5, ed. 2 type Ia<br>>= 85 - 20 x log10(f / 100) dB from 100…1000 MHz conforming to IEC 61156-5, ed. 2 type Ia |

| Transfer Impedance | <= 10 mOhm/m at 1…10 MHz conforming to IEC 61156-5, ed. 2.1 (grade 1) |
| | <= 30 mOhm/m conforming to IEC 61156-5, ed. 2.1 (grade 1) |
| | <= 30 mOhm/m at 30 MHz conforming to IEC 61156-5, ed. 2.1 (grade 1) |
| | <= 60 mOhm/m at 100 MHz conforming to IEC 61156-5, ed. 2.1 (grade 1) |
| | <= 60 mOhm/m conforming to IEC 61156-5, ed. 2.1 (grade 1) |
| **Input Impedance** | 100 Ohm |
| **Maximum Loop Resistance** | 138.4 Ohm per 1000 m |
| **Segregation Class** | Class d conforming to EN 50174-2 |
| **Maximum Resistance Unbalance** | 2 % |
| **Pulling Force** | 200 N |
| **Bending Radius** | Minimum bending radius during installation: 8 x overall diameter |
| | Minimum bending radius after installation: 4 x overall diameter |
| **Delay Skew** | 25 ns |
| **Material** | Solid bare copper: conductor |
| | PE (polyethylene): wire insulation |
| | Aluminium/polyester: foil |
| | Tinned copper: braid shield |
| | PE (polyethylene): sheath |
| **Euroclass Level** | Dca s2 d1 a1 |
| **Nominal Velocity Propagation** | 80 % |
| **Linear Conductor Resistance** | 69.2 mΩ/m |
| **Awg Gauge** | AWG 23 |
| **Calorific Value** | 1146 MJ/km |
| **Cable Outer Diameter** | 7.3 mm |
| **Width** | 14.8 mm |
| **Cable Length** | 500 m |
| **Cable Weight** | 118 kg / 1 km |

## Environment

| Ambient Air Temperature For Installation | 0…50 °C |
| **Ambient Air Temperature For Storage** | -20…60 °C |
| **Ambient Air Temperature For Operation** | -20…60 °C |
| **Directives** | 2006/95/EC - low voltage directive |
| | 305/2011/EU - construction product regulation |
| **Flame Retardance** | LSZH |
| **Standards** | ISO/IEC 11801-ed. 3 performance |
| | EN 50173-1 performance |
| | EN 50174-1 performance |
| | ANSI/TIA/EIA-568-C.2 performance |
| | IEC 61156-5-ed. 2.1 performance |
| | EN 50288-10-1 performance |
| | ISO/IEC 14763-2 installation standards |
| | EN 50174-2 installation standards |
| | IEC 60332-1 flame propagation characteristics |
| | IEC 60754-1 |
| | IEC 60754-2 acidity of combustion gases |
| | IEC 61034 smoke generation |

## Packing Units

| Unit Type Of Package 1 | PCE |
| **Number Of Units In Package 1** | 1 |

Apr 23, 2024

| | |
|---|---|
| **Package 1 Height** | 35 cm |
| **Package 1 Width** | 60 cm |
| **Package 1 Length** | 60 cm |
| **Package 1 Weight** | 66.75 kg |

# Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

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Guide to assess a product's sustainability ›

Transparency    RoHS/REACh

## Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information       Yes

## Certifications & Standards

**Reach Regulation**                    REACh Declaration

**Eu Rohs Directive**                   Pro-active compliance (Product out of EU RoHS legal scope)

                                        EU RoHS Declaration

**China Rohs Regulation**               China RoHS declaration

                                        Pro-active China RoHS declaration (out of China RoHS legal scope)

**Environmental Disclosure**            Product Environmental Profile

**Circularity Profile**                 No need of specific recycling operations

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