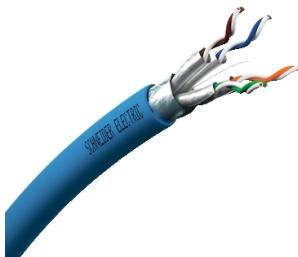


Product data sheet

Specifications



Copper LAN cable, Actassi, F/FTP, 4P, Cat7A, Euroclass D, 1GHz, LSZH, 1000m

VDICD648318

⚠ Discontinued on: Jun 30, 2021

⚠ Discontinued

Main

Range	Actassi
Product Or Component Type	Copper cable
Cable Packaging	Drum of 1000 m
Colour Tint	Blue
Cable Shielding Type	F/FTP

Complementary

Type Of Cable	4 pair cables
Communication Network Category	7 _A
Remote Powering	PoE 15W (Power over Ethernet) PoE+ 30W (Power over Ethernet Plus) 4PPoE 100W (Power over Ethernet)
Communication Network Type	10GBASE-T
Minimum Return Loss	Guaranteed: 20.1 dB at 100 MHz typical: 28.0 dB Guaranteed: 17.3 dB at 250 MHz typical: 24.0 dB Guaranteed: 17.3 dB at 500 MHz typical: 22.3 dB Guaranteed: 15.1 dB at 1000 MHz typical: 20.1 dB
Attenuation	Guaranteed: 18.5 dB Typical: 17.0 dB @ 100 MHz Guaranteed: 29.7 dB Typical: 27.3 dB @ 250 MHz Guaranteed: 42.8 dB Typical: 39.4 dB @ 500 MHz 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 Guaranteed: 66.4 dB Typical: 91.4 dB at 250 MHz Guaranteed: 61.9 dB Typical: 86.9 dB at 500 MHz 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 Guaranteed: 47.3 dB Typical: 59.7 dB at 250 MHz Guaranteed: 41.3 dB Typical: 52.7 dB at 500 MHz 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 44.3 dB at 250 MHz 38.3 dB at 500 MHz 32.3 dB at 1000 MHz
Near End Crosstalk [Next]	Guaranteed: 75.4 dB Typical: 100.4 dB at 100 MHz Guaranteed: 69.4 dB Typical: 94.4 dB at 250 MHz Guaranteed: 64.9 dB Typical: 89.9 dB at 500 MHz Guaranteed: 60.4 dB Typical: 84.3 dB at 1000 MHz
Coupling Attenuation	>= 55 dB from 30...100 MHz conforming to IEC 61156-5, ed. 2 type II >= 55 - 20 x log10(f / 100) dB from 100...1000 MHz conforming to IEC 61156-5, ed. 2 type II

Disclaimer: 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

Transfer Impedance	<= 50 mOhm/m at 1 MHz (grade 2) <= 1000 mOhm/m at 100 MHz (grade 2)
Input Impedance	100 Ohm
Maximum Loop Resistance	138.4 Ohm per 1000 m
Segregation Class	Class c conforming to EN 50174-2
Maximum Resistance Unbalance	2 %
Pulling Force	100 N
Bending Radius	Minimum bending radius during installation: 8 x overall diameter Minimum bending radius after installation: 4 x overall diameter
Material	Solid bare copper: conductor PE (polyethylene): wire insulation Aluminium/polyester: foil Tinned copper: drain wire 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	599 MJ/km
Cable Outer Diameter	7.5 mm
Cable Length	1000 m
Cable Weight	57 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
Package 1 Height	60 cm
Package 1 Width	34 cm
Package 1 Length	60 cm
Package 1 Weight	59.166 kg

Sustainability

Green Premium™ 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-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Reach Free Of Svhc

✓ 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