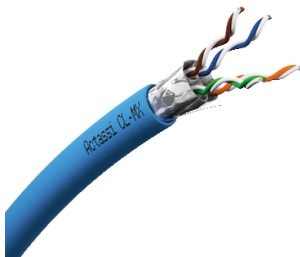


Product data sheet

Specifications



Copper LAN cable, Actassi CL-MX,
F/FTP, 2x4P, Cat7, Euroclass D,
900MHz, LSZH, 500m

VDICD687228

Main

Range	Actassi
Product Or Component Type	Copper cable
Cable Packaging	Drum of 500 m
Colour Tint	Blue
Cable Shielding Type	F/FTP with exclusive patented metallic crossfiller

Complementary

Type Of Cable	2x4 twisted-pairs cable
Communication Network Category	7
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: 30.0 dB Guaranteed: 17.3 dB at 250 MHz typical: 24.0 dB Guaranteed: 17.3 dB at 500 MHz typical: 22.0 dB Guaranteed: 17.3 dB at 600 MHz typical: 22.0 dB
Attenuation	Guaranteed: 19 dB Typical: 17.4 dB @ 100 MHz Guaranteed: 31 dB Typical: 28.1 dB @ 250 MHz Guaranteed: 45.3 dB Typical: 39.0 dB @ 500 MHz Guaranteed: 50.1 dB Typical: 44.8 dB @ 600 MHz
Power Sum Near-End Crosstalk [Psnext]	Guaranteed: 69.4 dB Typical: 97.0 dB at 100 MHz Guaranteed: 63.4 dB Typical: 87.0 dB at 250 MHz Guaranteed: 58.9 dB Typical: 84.0 dB at 500 MHz Guaranteed: 57.7 dB Typical: 82.0 dB at 600 MHz
Attenuation To Crosstalk Ratio Far-End [Acrf]	Guaranteed: 55.3 dB at 100 MHz Guaranteed: 47.3 dB at 250 MHz Guaranteed: 41.3 dB at 500 MHz Guaranteed: 39.7 dB at 600 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 36.7 dB at 600 MHz
Near End Crosstalk [Next]	Guaranteed: 72.4 dB Typical: 100.0 dB at 100 MHz Guaranteed: 66.4 dB Typical: 90.0 dB at 250 MHz Guaranteed: 61.9 dB Typical: 87.0 dB at 500 MHz Guaranteed: 60.7 dB Typical: 85.0 dB at 600 MHz
Coupling Attenuation	>= 75 dB from 30...100 MHz conforming to IEC 61156-5, ed. 2 type Ib >= 75 - 20 x log10(f / 100) dB from 100...1000 MHz conforming to IEC 61156-5, ed. 2 type Ib
Transfer Impedance	<= 10 mOhm/m at 1...10 MHz 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)

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

Input Impedance	100 Ohm
Maximum Loop Resistance	143.2 Ohm per 1000 m
Segregation Class	Class d conforming to EN 50174-2
Maximum Resistance Unbalance	2 %
Bending Radius	Minimum bending radius after installation: 4 x overall diameter Minimum bending radius during installation: 8 x overall diameter
Material	Solid bare copper: conductor PE (polyethylene): wire insulation Metallic crossfiller: screen Tinned copper: drain wire PE (polyethylene): sheath
Euroclass Level	Dca s2 d1 a1
Nominal Velocity Propagation	82 %
Linear Conductor Resistance	71.6 mΩ/m
Awg Gauge	AWG 23
Cable Outer Diameter	7.3 mm
Width	14.8 mm
Cable Length	500 m
Cable Weight	108 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 14/01 - vfdb directive
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 50288-4-1 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	30.000 cm
Package 1 Width	60.000 cm
Package 1 Length	60.000 cm
Package 1 Weight	55.500 g
Unit Type Of Package 2	P12
Number Of Units In Package 2	6

Package 2 Height	50.000 cm
Package 2 Width	80.000 cm
Package 2 Length	120.000 cm
Package 2 Weight	372.000 g

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 >](#)

Well-being performance

 Rohs Exemption Information	Yes
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Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
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China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
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Circularity Profile	No need of specific recycling operations
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