



Main

Range	Actassi
Product or component type	Network cable
Cable packaging	Drum of 500 m
Colour tint	Green
Cable shielding type	U/UTP

Complementary

Type of cable	4 pair cables
Communication network category	6
Remote powering	PoE 15W (Power over Ethernet) VoIP (Voice IP) PoE+ 30W (Power over Ethernet Plus)
Communication network type	1000BASE-T
Minimum return loss	Guaranteed: 20 dB at 1 MHz Guaranteed: 23 dB at 4 MHz Guaranteed: 25 dB at 10 MHz Guaranteed: 25 dB at 16 MHz Guaranteed: 25 dB at 20 MHz Guaranteed: 23.6 dB at 31.25 MHz Guaranteed: 21.5 dB at 62.5 MHz Guaranteed: 20.1 dB at 100 MHz Guaranteed: 19.4 dB at 125 MHz Guaranteed: 18 dB at 200 MHz Guaranteed: 17.3 dB at 250 MHz
Attenuation	Guaranteed: 2 dB @ 1 MHz Guaranteed: 3.8 dB @ 4 MHz Guaranteed: 6 dB @ 10 MHz Guaranteed: 7.6 dB @ 16 MHz Guaranteed: 8.5 dB @ 20 MHz Guaranteed: 10.7 dB @ 31.25 MHz Guaranteed: 15.4 dB @ 62.5 MHz Guaranteed: 19.8 dB @ 100 MHz Guaranteed: 22.4 dB @ 125 MHz Guaranteed: 29 dB @ 200 MHz Guaranteed: 32.8 dB @ 250 MHz
Power sum equal level far end crosstalk [PSELFEXT]	64.8 DB at 1 MHz 53 DB at 4 MHz 45 DB at 10 MHz 40.9 DB at 16 MHz 39 DB at 20 MHz 35.1 DB at 31.25 MHz 29.1 DB at 62.5 MHz 25 DB at 100 MHz 23.1 DB at 125 MHz 19 DB at 200 MHz 17 dB at 250 MHz

Power sum near-end crosstalk [PSNEXT]	Guaranteed: 72.3 dB at 1 MHz Guaranteed: 63.3 dB at 4 MHz Guaranteed: 57.3 dB at 10 MHz Guaranteed: 54.2 dB at 16 MHz Guaranteed: 52.8 dB at 20 MHz Guaranteed: 49.9 dB at 31.25 MHz Guaranteed: 45.4 dB at 62.5 MHz Guaranteed: 42.3 dB at 100 MHz Guaranteed: 40.8 dB at 125 MHz Guaranteed: 37.8 dB at 200 MHz Guaranteed: 36.3 dB at 250 MHz
Near end crosstalk [NEXT]	Guaranteed: 74.3 dB at 1 MHz Guaranteed: 66.3 dB at 4 MHz Guaranteed: 60.3 dB at 10 MHz Guaranteed: 57.2 dB at 16 MHz Guaranteed: 55.8 dB at 20 MHz Guaranteed: 52.9 dB at 31.25 MHz Guaranteed: 48.4 dB at 62.5 MHz Guaranteed: 45.3 dB at 100 MHz Guaranteed: 43.8 dB at 125 MHz Guaranteed: 40.8 dB at 200 MHz Guaranteed: 39.3 dB at 250 MHz
Equal level far end crosstalk [ELFEXT]	Guaranteed: 67.8 dB @ 1 MHz Guaranteed: 67.8 dB Guaranteed: 56 dB @ 4 MHz Guaranteed: 48 dB @ 10 MHz Guaranteed: 56 dB Guaranteed: 43.9 dB @ 16 MHz Guaranteed: 42 dB @ 20 MHz Guaranteed: 38.1 dB @ 31.25 MHz Guaranteed: 48 dB Guaranteed: 32.1 dB @ 62.5 MHz Guaranteed: 28 dB @ 100 MHz Guaranteed: 43.9 dB Guaranteed: 26.1 dB @ 125 MHz Guaranteed: 42 dB Guaranteed: 22 dB @ 200 MHz Guaranteed: 20 dB @ 250 MHz Guaranteed: 38.1 dB Guaranteed: 32.1 dB Guaranteed: 28 dB Guaranteed: 26.1 dB Guaranteed: 22 dB Guaranteed: 20 dB
Power sum equal level far end crosstalk [PSELFEXT]	Guaranteed: 64.8 dB @ 1 MHz Guaranteed: 53 dB @ 4 MHz Guaranteed: 45 dB @ 10 MHz Guaranteed: 40.9 dB @ 16 MHz Guaranteed: 39 dB @ 20 MHz Guaranteed: 35.1 dB @ 31.25 MHz Guaranteed: 29.1 dB @ 62.5 MHz Guaranteed: 25 dB @ 100 MHz Guaranteed: 23.1 dB @ 125 MHz Guaranteed: 19 dB @ 200 MHz Guaranteed: 17 dB @ 250 MHz
Coupling attenuation	>= 40 dB from 30...100 MHz conforming to IEC 61156-5, ed. 2 type III >= 40 - 20 x log10(f / 100) dB from 100...250 MHz conforming to IEC 61156-5, ed. 2 type III
Input impedance	100 Ohm at 1...250 MHz
Transverse conversion loss	>= 40 - 10 x log(f) dB from 1...200 MHz conforming to IEC 61156-5, ed. 2.1
Maximum loop resistance	147.6 Ohm per 1000 m
Segregation class	Class b conforming to EN 50174-2
Maximum resistance unbalance	2 %
Pulling force	392 N
Bending radius	Minimum bending radius during installation: 8 x overall diameter Minimum bending radius after installation: 4 x overall diameter
Delay skew	45 ns at 1...250 MHz
Material	Solid bare copper: conductor PE (polyethylene): wire insulation
Nominal velocity propagation	68 %
Linear conductor resistance	73.8 mΩ/m
AWG gauge	AWG 23
Calorific value	599 MJ/km

Cable outer diameter	5.9 mm
Cable weight	40.9 kg

Environment

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
Flame retardance	LSZH
Standards	IEC 60332-1 flame propagation characteristics IEC 60754-2 acidity of combustion gases IEC 61034 smoke generation IEC 61156-5-ed. 2.1 performance EN 50173-1 performance EN 50174-1 performance ANSI/TIA/EIA-568-C.2 performance IEC 60754-1 ISO/IEC 14763-2 installation standards ISO/IEC 11801-ed. 2.2, 2011 performance ISO/IEC 11801-ed. 2.1 performance EN 50174-2 installation standards IEEE 802.3af performance EN 50288-6-1 performance IEEE 802.3at performance

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	32 cm
Package 1 Width	40 cm
Package 1 Length	40 cm
Package 1 Weight	21 kg

Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Environmental Disclosure	Product Environmental Profile

Contractual warranty

Warranty	18 months
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