



Main

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

Complementary

Localisation on device	Jacket LSZH (low smoke zero halogen) Conductor: solid bare copper Wire insulation: PE (polyethylene)
Type of cable	4 twisted-pairs cable
Communication network category	6A
Communication port protocol	VoIP (Voice IP) PoE+ 30W (Power over Ethernet Plus) PoE 15W (Power over Ethernet)
Communication network type	10GBASE-T
Minimum return loss	23 dB 4 MHz 26 dB 25 dB 16 MHz 28 dB 25 dB 20 MHz 28 dB 23.6 dB 31.25 MHz 26.9 dB 21.5 dB 62.5 MHz 25.3 dB 20.1 dB 100 MHz 24.2 dB 18 dB 200 MHz 22.5 dB 17.3 dB 250 MHz 22 dB 17.3 dB 300 MHz 22 dB 17.3 dB 400 MHz 22 dB 17.3 dB 500 MHz 20.3 dB 25 dB 10 MHz 28 dB 19.4 dB 125 MHz 23.36 dB
Attenuation	Guaranteed: 3.8 dB Typical: 3.7 dB @ 4 MHz Guaranteed: 5.9 dB Typical: 5.5 dB @ 10 MHz Guaranteed: 7.5 dB Typical: 6.9 dB @ 16 MHz Guaranteed: 8.4 dB Typical: 7.7 dB @ 20 MHz Guaranteed: 10.5 dB Typical: 9.6 dB @ 31.25 MHz Guaranteed: 15 dB Typical: 13.7 dB @ 62.5 MHz Guaranteed: 19.1 dB Typical: 17.5 dB @ 100 MHz Guaranteed: 27.6 dB Typical: 25.2 dB @ 200 MHz Guaranteed: 31.1 dB Typical: 28.4 dB @ 250 MHz Guaranteed: 45.3 dB Typical: 41.4 dB @ 500 MHz

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

	<p>Guaranteed: 21.5 dB @ 125 MHz Guaranteed: 34.3 dB @ 300 MHz Guaranteed: 40.1 dB @ 400 MHz</p>
Power sum near-end crosstalk [PSNEXT]	<p>Guaranteed: 36.3 dB Typical: 48.2 dB at 250 MHz Guaranteed: 31.8 dB Typical: 42.5 dB at 500 MHz Guaranteed: 43.8 dB at 125 MHz Guaranteed: 35.1 dB at 300 MHz Guaranteed: 33.3 dB at 400 MHz Guaranteed: 66.3 dB Typical: 82.5 dB at 4 MHz Guaranteed: 60.3 dB Typical: 74.9 dB at 10 MHz Guaranteed: 57.2 dB Typical: 71 dB at 16 MHz Guaranteed: 55.8 dB Typical: 69.2 dB at 20 MHz Guaranteed: 52.9 dB Typical: 65.5 dB at 31.25 MHz Guaranteed: 48.4 dB Typical: 59.7 dB at 62.5 MHz Guaranteed: 45.3 dB Typical: 55.8 dB at 100 MHz Guaranteed: 40.8 dB Typical: 50.1 dB at 200 MHz</p>
Power sum alien near-end crosstalk [PSANEXT]	<p>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 62.5 dB at 100 MHz 61 dB at 125 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</p>
Power sum attenuation to alien crosstalk ratio far-end [PSAACRF]	<p>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 36.3 dB at 125 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</p>
Attenuation to Crosstalk Ratio Far-end [ACRF]	<p>Guaranteed: 29.1 dB at 125 MHz Guaranteed: 21.5 dB at 300 MHz Guaranteed: 19 dB at 400 MHz Guaranteed: 59 dB Typical: 83 dB at 4 MHz Guaranteed: 51 dB Typical: 74.9 dB at 10 MHz Guaranteed: 46.9 dB Typical: 70.8 dB at 16 MHz Guaranteed: 45 dB Typical: 68.8 dB at 20 MHz Guaranteed: 41.1 dB Typical: 64.9 dB at 31.25 MHz Guaranteed: 35.1 dB Typical: 58.8 dB at 62.5 MHz Guaranteed: 31 dB Typical: 54.7 dB at 100 MHz Guaranteed: 25 dB Typical: 48.6 dB at 200 MHz Guaranteed: 23 dB Typical: 46.6 dB at 250 MHz Guaranteed: 17 dB Typical: 40.5 dB at 500 MHz</p>
Power sum attenuation crosstalk ratio far-end [PSACRF]	<p>56 dB 4 MHz 48 dB 10 MHz 43.9 dB 16 MHz 42 dB 20 MHz 38.1 dB 31.25 MHz 32.1 dB 62.5 MHz 28 dB 100 MHz 26.1 dB 125 MHz 22 dB 200 MHz 20 dB 250 MHz 18.5 dB 300 MHz 16 dB 400 MHz 14 dB 500 MHz</p>
Near end crosstalk [NEXT]	<p>Guaranteed: 39.3 dB Typical: 51.2 dB at 250 MHz Guaranteed: 34.8 dB Typical: 45.5 dB at 500 MHz Guaranteed: 38.1 dB at 300 MHz Guaranteed: 36.3 dB at 400 MHz Guaranteed: 68.3 dB Typical: 85.5 dB at 4 MHz</p>

Guaranteed: 62.3 dB Typical: 77.9 dB at 10 MHz
 Guaranteed: 59.2 dB Typical: 74 dB at 16 MHz
 Guaranteed: 57.8 dB Typical: 72.2 dB at 20 MHz
 Guaranteed: 54.9 dB Typical: 68.5 dB at 31.25 MHz
 Guaranteed: 50.4 dB Typical: 62.7 dB at 62.5 MHz
 Guaranteed: 47.3 dB Typical: 58.8 dB at 100 MHz
 Guaranteed: 45.8 dB at 125 MHz
 Guaranteed: 42.8 dB Typical: 53.1 dB at 200 MHz

Coupling attenuation	>= 55 dB from 30...100 MHz conforming to IEC 61156-5, ed. 2 type II >= 55 - 20 x log ₁₀ (f / 100) dB from 100...500 MHz conforming to IEC 61156-5, ed. 2 type II
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
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...500 MHz
Euroclass level	C
Nominal velocity propagation	68 %
AWG gauge	AWG 23
Calorific value	1211 MJ/km
Cable outer diameter	7.9 mm
Cable weight	58 kg
Cable weight	Europe

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	2011/65/EU - RoHS directive 2006/95/EC - low voltage directive 305/2011/EU - construction product regulation
Standards	Flame propagation characteristics: IEC 60332-1 Acidity of combustion gases: IEC 60754-2 Smoke generation: IEC 61034 Performance: IEC 61156-5:ed. 2.1 Performance: EN 50173-1 Performance: EN 50174-1 Performance: ANSI/TIA/EIA-568-C.2 Halogen gas evolution: IEC 60754-1 Installation standards: ISO/IEC 14763-2 Performance: ISO/IEC 11801:ed. 2.2, 2011 Performance: ISO/IEC 11801:ed. 2.1 Installation standards: EN 50174-2 Performance: IEEE 802.3af Performance: IEEE 802.3at Performance: prEN 50288-10-1

Offer Sustainability

REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)