



Main

Range	Actassi
Product or component type	Network cable
Type of cable	4 twisted-pairs cable
Cable shielding type	U/FTP
Communication network category	6A
Communication port protocol	VoIP (Voice IP) PoE 15W (Power over Ethernet) PoE+ 30W (Power over Ethernet Plus)
Communication network type	10GBASE-T
Colour tint	Blue
Localisation on device	Jacket : LSZH (low smoke zero halogen) Conductor : solid bare copper Wire insulation : PE (polyethylene)

Complementary

Return loss	Guaranteed: 23 dB Typical: 26 dB @4 MHz Guaranteed: 25 dB Typical: 28 dB @16 MHz Guaranteed: 25 dB Typical: 28 dB @20 MHz Guaranteed: 23.6 dB Typical: 26.9 dB @31.25 MHz Guaranteed: 21.5 dB Typical: 25.3 dB @62.5 MHz Guaranteed: 20.1 dB Typical: 24.2 dB @100 MHz Guaranteed: 18 dB Typical: 22.5 dB @200 MHz Guaranteed: 17.3 dB Typical: 22 dB @250 MHz Guaranteed: 17.3 dB Typical: 22 dB @300 MHz Guaranteed: 17.3 dB Typical: 22 dB @400 MHz Guaranteed: 17.3 dB Typical: 20.3 dB @500 MHz Guaranteed: 25 dB Typical: 28.26 dB @10 MHz Guaranteed: 19.4 dB Typical: 23.36 dB @125 MHz
Attenuation	3.8 dB 4 MHz 3.7 dB 7.5 dB 16 MHz 6.9 dB 8.4 dB 20 MHz 7.7 dB 10.5 dB 31.25 MHz 9.6 dB 15 dB 62.5 MHz 13.7 dB 19.1 dB 100 MHz 17.5 dB

21.5 dB 125 MHz 19.7 dB
 27.6 dB 200 MHz 25.2 dB
 31.1 dB 250 MHz 28.4 dB
 34.3 dB 300 MHz 31.32 dB
 40.1 dB 400 MHz 36.62 dB
 45.3 dB 500 MHz 41.4 dB
 5.9 dB 10 MHz 5.74 dB

Near end crosstalk [NEXT]	<p>Guaranteed: 72.9 dB Typical: 53.1 dB @31.25 MHz Guaranteed: 68.4 dB Typical: 51.2 dB @62.5 MHz Guaranteed: 65.3 dB Typical: 85.5 dB @100 MHz Guaranteed: 63.8 dB Typical: 85.5 dB @125 MHz Guaranteed: 60.8 dB Typical: 84.62 dB @200 MHz Guaranteed: 59.3 dB Typical: 83.09 dB @250 MHz Guaranteed: 78 dB Typical: 68.5 dB @4 MHz Guaranteed: 78 dB Typical: 62.7 dB @10 MHz Guaranteed: 77.2 dB Typical: 58.8 dB @16 MHz Guaranteed: 75.8 dB Typical: 57.45 dB @20 MHz Guaranteed: 58.1 dB Typical: 63.69 dB @300 MHz Guaranteed: 56.3 dB Typical: 61.71 dB @400 MHz Guaranteed: 54.8 dB Typical: 60.07 dB @500 MHz</p>
Power sum near-end crosstalk [PS NEXT]	<p>Guaranteed: 75 dB Typical: 85.5 dB @4 MHz Guaranteed: 75 dB Typical: 85.5 dB @10 MHz Guaranteed: 74.2 dB Typical: 84.59 dB @16 MHz Guaranteed: 72.8 dB Typical: 82.99 dB @20 MHz Guaranteed: 69.9 dB Typical: 79.69 dB @31.25 MHz Guaranteed: 65.4 dB Typical: 74.56 dB @62.5 MHz Guaranteed: 62.3 dB Typical: 71.02 dB @100 MHz Guaranteed: 60.8 dB Typical: 69.31 dB @125 MHz Guaranteed: 57.8 dB Typical: 65.89 dB @200 MHz Guaranteed: 56.3 dB Typical: 64.18 dB @250 MHz Guaranteed: 55.1 dB Typical: 62.81 dB @300 MHz Guaranteed: 53.3 dB Typical: 60.76 dB @400 MHz Guaranteed: 51.8 dB Typical: 59.05 dB @500 MHz</p>
Attenuation to Crosstalk Ratio Far-end [ACR-F]	<p>Guaranteed: 66 dB Typical: 83 dB @4 MHz Guaranteed: 58 dB Typical: 72.94 dB @10 MHz Guaranteed: 53.9 dB Typical: 70.8 dB @16 MHz Guaranteed: 52 dB Typical: 68.8 dB @20 MHz Guaranteed: 48.1 dB Typical: 64.9 dB @31.25 MHz Guaranteed: 42.1 dB Typical: 58.8 dB @62.5 MHz Guaranteed: 38 dB Typical: 54.7 dB @100 MHz Guaranteed: 36.1 dB Typical: 51.97 dB @125 MHz Guaranteed: 32 dB Typical: 48.6 dB @200 MHz Guaranteed: 30 dB Typical: 46.6 dB @250 MHz Guaranteed: 28.5 dB Typical: 44.27 dB @300 MHz Guaranteed: 26 dB Typical: 40.39 dB @400 MHz Guaranteed: 24 dB Typical: 40.5 dB @500 MHz</p>
Power sum attenuation crosstalk ratio far-end [PS ACR-F]	<p>Guaranteed: 63 dB @4 MHz Guaranteed: 55 dB @10 MHz Guaranteed: 50.9 dB @16 MHz Guaranteed: 49 dB @20 MHz Guaranteed: 45.1 dB @31.25 MHz Guaranteed: 39.1 dB @62.5 MHz Guaranteed: 35 dB @100 MHz Guaranteed: 33.1 dB @125 MHz Guaranteed: 29 dB @200 MHz Guaranteed: 27 dB @250 MHz Guaranteed: 25.5 dB @300 MHz Guaranteed: 23 dB @400 MHz Guaranteed: 21 dB @500 MHz</p>
Power sum attenuation to alien crosstalk ratio far-end [PS AACR-F]	<p>Guaranteed: 66.2 dB @4 MHz Guaranteed: 58.2 dB @10 MHz Guaranteed: 54.1 dB @16 MHz Guaranteed: 52.2 dB @20 MHz Guaranteed: 48.3 dB @31.25 MHz Guaranteed: 42.3 dB @62.5 MHz Guaranteed: 38.2 dB @100 MHz Guaranteed: 36.3 dB @125 MHz Guaranteed: 32.2 dB @200 MHz Guaranteed: 30.2 dB @250 MHz Guaranteed: 28.7 dB @300 MHz Guaranteed: 26.2 dB @400 MHz Guaranteed: 24.2 dB @500 MHz</p>

Power sum alien near-end crosstalk [PS ANEXT]	Guaranteed: 67 dB @4 MHz Guaranteed: 67 dB @10 MHz Guaranteed: 67 dB @16 MHz Guaranteed: 67 dB @20 MHz Guaranteed: 67 dB @31.25 MHz Guaranteed: 65.6 dB @62.5 MHz Guaranteed: 62.5 dB @100 MHz Guaranteed: 61 dB @125 MHz Guaranteed: 58 dB @200 MHz Guaranteed: 56.5 dB @250 MHz Guaranteed: 55.3 dB @300 MHz Guaranteed: 53.5 dB @400 MHz Guaranteed: 52 dB @500 MHz
Input impedance	100 Ohm @1...550 MHz
Delay skew	<= 45 ns @1...550 MHz
Resistance unbalance	<= 2 %
Transverse conversion loss	>= 40 - 10 x log(f) dB from 1...250 MHz (IEC 61156-5, ed. 2.1)
Coupling attenuation	>= 55 dB from 30...100 MHz (IEC 61156-5, ed. 2 type II) >= 55 - 20 x log10(f / 100) dB from 100...1000 MHz (IEC 61156-5, ed. 2 type II)
Segregation class	Class c (EN 50174-2)
Nominal velocity propagation	80 %
Pulling force	<= 392 N
Calorific value	518 MJ/km
AWG gauge	AWG 23
Bending radius	Minimum bending radius after installation : 4 x overall diameter Minimum bending radius during installation : 8 x overall diameter
Cable outer diameter	7.1 mm
Cable packaging	Drum of 500 m
Cable weight	48 kg/km

Environment

Ambient air temperature for installation	0...50 °C
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-20...60 °C
Temperature resistance	60 °C
Directives	2006/95/EC - low voltage directive 2011/65/EU - RoHS directive
Standards	Halogen gas evolution : IEC 60754-1 Acidity of combustion gases : IEC 60754-2 Smoke generation : IEC 61034 Performance : EN 50173-1 Performance : EN 50174-1 Performance : ANSI/TIA/EIA-568-C.2 Flame propagation characteristics : IEC 60332-1 Installation standards : ISO/IEC 14763-2 Performance : prEN 50288-10-1 Performance : IEC 61156-5 ed. 2.1 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

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1052 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product environmental

Product end of life instructions	Need no specific recycling operations
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Contractual warranty

Warranty period	18 months
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