



Main

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

Complementary

Localisation on device	Jacket : LSZH (low smoke zero halogen) Conductor : solid bare copper Wire insulation : PE (polyethylene)
Type of cable	2x4 twisted-pairs cable
Communication network category	6A
Communication port protocol	PoE+ 30W (Power over Ethernet Plus) PoE 15W (Power over Ethernet) VoIP (Voice IP)
Communication network type	10GBASE-T
Return loss	Guaranteed: ≥ 23 dB Typical: 26 dB @4 MHz Guaranteed: ≥ 17.3 dB Typical: 22 dB @250 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 @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 at 4 MHz 3.7 dB 7.5 dB at 16 MHz 6.9 dB 8.4 dB at 20 MHz 7.7 dB 10.5 dB at 31.25 MHz 9.6 dB 15 dB at 62.5 MHz 13.7 dB 19.1 dB at 100 MHz 17.5 dB 21.5 dB at 125 MHz 19.7 dB 27.6 dB at 200 MHz 25.2 dB 31.1 dB at 250 MHz 28.4 dB 34.3 dB at 300 MHz 31.32 dB

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

	40.1 dB at 400 MHz 36.62 dB 45.3 dB at 500 MHz 41.4 dB 5.9 dB at 10 MHz 5.74 dB
Power sum near-end crosstalk [PS NEXT]	Guaranteed: 75 dB Typical: 85.5 dB at 4 MHz Guaranteed: 75 dB Typical: 85.5 dB at 10 MHz Guaranteed: 74.2 dB Typical: 84.59 dB at 16 MHz Guaranteed: 72.8 dB Typical: 82.99 dB at 20 MHz Guaranteed: 69.9 dB Typical: 79.69 dB at 31.25 MHz Guaranteed: 65.4 dB Typical: 74.56 dB at 62.5 MHz Guaranteed: 62.3 dB Typical: 71.02 dB at 100 MHz Guaranteed: 60.8 dB Typical: 69.31 dB at 125 MHz Guaranteed: 57.8 dB Typical: 65.89 dB at 200 MHz Guaranteed: 56.3 dB Typical: 64.18 dB at 250 MHz Guaranteed: 55.1 dB Typical: 62.81 dB at 300 MHz Guaranteed: 53.3 dB Typical: 60.76 dB at 400 MHz Guaranteed: 51.8 dB Typical: 59.05 dB at 500 MHz
Power sum alien near-end crosstalk [PS ANEXT]	62.5 dB at 100 MHz 61 dB at 125 MHz 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 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
Power sum attenuation to alien crosstalk ratio far-end [PS AACR-F]	36.3 dB at 125 MHz 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 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
Attenuation to Crosstalk Ratio Far-end [ACR-F]	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
Power sum attenuation crosstalk ratio far-end [PS ACR-F]	63 dB 4 MHz 55 dB 10 MHz 50.9 dB 16 MHz 49 dB 20 MHz 45.1 dB 31.25 MHz 39.1 dB 62.5 MHz 35 dB 100 MHz 33.1 dB 125 MHz 29 dB 200 MHz 27 dB 250 MHz 25.5 dB 300 MHz 23 dB 400 MHz 21 dB 500 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...1000 MHz conforming to IEC 61156-5, ed. 2 type II)
Input impedance	100 Ohm at 1...550 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)
Resistance unbalance	<= 2 %
Pulling force	392 N
Bending radius	Minimum bending radius after installation : 4 x overall diameter Minimum bending radius during installation : 8 x overall diameter
Delay skew	45 ns 1...550 MHz
Euroclass level	C D
Nominal velocity propagation	80 %
AWG gauge	AWG 23
Calorific value	1074 MJ/km
Cable outer diameter	8.1 mm 14.4
Cable weight	112 kg
Targeted region	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 305/2011/EU - construction product regulation 2006/95/EC - low voltage 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

RoHS (date code: YYWW)	Compliant - since 1723 - 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