



Main

Range	Actassi
Product or component type	Network cable
Type of cable	4 twisted-pairs cable
Cable shielding type	U/UTP
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
Euroclass level	D
Colour tint	Blue
Localisation on device	Jacket : LSZH (low smoke zero halogen) Conductor : solid bare copper Wire insulation : PE (polyethylene)

Complementary

Cable cross section	0.25 mm ²
Cable stiffness	Solid
Number of conductors	8
Return loss	Guaranteed: 23 dB @4 MHz Guaranteed: 25 dB @10 MHz Guaranteed: 25 dB @16 MHz Guaranteed: 25 dB @20 MHz Guaranteed: 18 dB @200 MHz Guaranteed: 17.3 dB @250 MHz Guaranteed: 17.3 dB @500 MHz Guaranteed: 24 dB @31.2 MHz Guaranteed: 22 dB @62.5 MHz Guaranteed: 20 dB @100 MHz Guaranteed: 19 dB @125 MHz Guaranteed: 19 dB @155.5 MHz Guaranteed: 18 dB @175 MHz
Attenuation	3.8 dB 4 MHz 5.9 dB 10 MHz 7.5 dB 16 MHz 8.4 dB 20 MHz 15 dB 62.5 MHz 19.1 dB 100 MHz

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21.5 dB 125 MHz
 27.6 dB 200 MHz
 31.1 dB 250 MHz
 45.3 dB 500 MHz
 10.5 dB 31.2 MHz
 24.1 dB 155.5 MHz
 25.7 dB 175 MHz

Near end crosstalk [NEXT]	Guaranteed: 45 dB @100 MHz Guaranteed: 66 dB @4 MHz Guaranteed: 60 dB @10 MHz Guaranteed: 57 dB @16 MHz Guaranteed: 56 dB @20 MHz Guaranteed: 53 dB @31.2 MHz Guaranteed: 48 dB @62.5 MHz Guaranteed: 44 dB @125 MHz Guaranteed: 43 dB @155.5 MHz Guaranteed: 42 dB @175 MHz Guaranteed: 41 dB @200 MHz Guaranteed: 38.3 dB @250 MHz Guaranteed: 33.8 dB @500 MHz
Power sum near-end crosstalk [PS NEXT]	Guaranteed: 63 dB @4 MHz Guaranteed: 57 dB @10 MHz Guaranteed: 54 dB @16 MHz Guaranteed: 53 dB @20 MHz Guaranteed: 50 dB @31.2 MHz Guaranteed: 45 dB @62.5 MHz Guaranteed: 42 dB @100 MHz Guaranteed: 41 dB @125 MHz Guaranteed: 40 dB @155.5 MHz Guaranteed: 39 dB @175 MHz Guaranteed: 38 dB @200 MHz Guaranteed: 36 dB @250 MHz Guaranteed: 31.8 dB @500 MHz
Equal level far end crosstalk [ELFEXT]	Guaranteed: 55 dB @4 MHz Guaranteed: 47 dB @10 MHz Guaranteed: 43 dB @16 MHz Guaranteed: 41 dB @20 MHz Guaranteed: 37 dB @31.2 MHz Guaranteed: 31 dB @62.5 MHz Guaranteed: 27 dB @100 MHz Guaranteed: 25 dB @125 MHz Guaranteed: 23 dB @155.5 MHz Guaranteed: 22 dB @175 MHz Guaranteed: 21 dB @200 MHz Guaranteed: 19 dB @250 MHz Guaranteed: 31.8 dB @500 MHz
Power sum equal level far end crosstalk [PSELFEXT]	Guaranteed: 23 dB @4 MHz Guaranteed: 25 dB @10 MHz Guaranteed: 25 dB @16 MHz Guaranteed: 25 dB @20 MHz Guaranteed: 24 dB @31.2 MHz Guaranteed: 22 dB @62.5 MHz Guaranteed: 20 dB @100 MHz Guaranteed: 19 dB @125 MHz Guaranteed: 19 dB @155.5 MHz Guaranteed: 18 dB @175 MHz Guaranteed: 18 dB @200 MHz Guaranteed: 17.3 dB @250 MHz Guaranteed: 17.3 dB @500 MHz
Input impedance	100 Ohm @1...500 MHz
Delay skew	<= 12 ns @4...500 MHz
Resistance unbalance	<= 2 %
Transverse conversion loss	>= 60 - 10 x log(f/100) dB from 1...500 MHz (TIA/EIA-568-C.2)
Coupling attenuation	>= 40 dB from 30...100 MHz (EN 50289-1-6, >= 40 - 20 x log ₁₀ (f / 100) dB from 100...1000 MHz (EN 50289-1-6,
Transfer impedance	<= 30 mOhm/m 30 MHz (IEC 61156-5, ed. 2 grade 1) <= 60 mOhm/m 100 MHz (IEC 61156-5, ed. 2 grade 1) <= 10 mOhm/m 1...10 MHz (IEC 61156-5, ed. 2 grade 1)
Segregation class	Class c (IEC 61156-5)
Nominal velocity propagation	70 % 66 %

Pulling force	<= 392 N
Calorific value	595 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	7.7 mm
Cable packaging	Drum of 500 m
Cable weight	60 kg/km

Environment

Environmental characteristic	Halogen free Low smoke emission
Ambient air temperature for installation	0...50 °C
Ambient air temperature for operation	-20...70 °C
Ambient air temperature for storage	-20...70 °C
Temperature resistance	70 °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 Flame propagation characteristics : IEC 60332-1 Installation standards : ISO/IEC 14763-2 Performance : prEN 50288-10-1 Installation standards : EN 50174-1 Performance : IEC 61156-5 ed. 2.1 Performance : ISO/IEC 11801 ed. 2.2, 2011 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

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