



### Main

Range	Actassi
Product or component-type	Network cable
Type of cable	4 twisted-pairs cable
Cable shielding type	SF/UTP
Communication network category	6
Communication port-protocol	PoE+ 30W (Power over Ethernet Plus) PoE 15W (Power over Ethernet) VoIP (Voice IP)
Communication network type	1000BASE-T
Euroclass level	D
Colour tint	Green
Localisation on device	Jacket : LSZH (low smoke zero halogen) Conductor : solid bare copper Wire insulation : PE (polyethylene)

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## Complementary

Return loss	<p>Guaranteed: 23 dB @4 MHz          Guaranteed: 25 dB @10 MHz          Guaranteed: 25 dB @16 MHz          Guaranteed: 25 dB @20 MHz          Guaranteed: 23.6 dB @31.25 MHz          Guaranteed: 21.5 dB @62.5 MHz          Guaranteed: 20.1 dB @100 MHz          Guaranteed: 19.4 dB @125 MHz          Guaranteed: 18 dB @200 MHz          Guaranteed: 17.3 dB @250 MHz</p>
Attenuation	<p>3.8 dB 4 MHz          6 dB 10 MHz          7.6 dB 16 MHz          8.5 dB 20 MHz          10.7 dB 31.25 MHz          15.5 dB 62.5 MHz          19.9 dB 100 MHz          22.5 dB 125 MHz          29.1 dB 200 MHz          33 dB 250 MHz</p>
Near end crosstalk [NEXT]	<p>Guaranteed: 66.3 dB @4 MHz          Guaranteed: 60.3 dB @10 MHz          Guaranteed: 57.2 dB @16 MHz          Guaranteed: 55.8 dB @20 MHz          Guaranteed: 52.9 dB @31.25 MHz          Guaranteed: 48.4 dB @62.5 MHz          Guaranteed: 45.3 dB @100 MHz          Guaranteed: 43.8 dB @125 MHz          Guaranteed: 40.8 dB @200 MHz          Guaranteed: 39.3 dB @250 MHz</p>
Power sum near-end crosstalk [PS NEXT]	<p>Guaranteed: 63.3 dB @4 MHz          Guaranteed: 57.3 dB @10 MHz          Guaranteed: 54.2 dB @16 MHz          Guaranteed: 52.8 dB @20 MHz          Guaranteed: 49.9 dB @31.25 MHz          Guaranteed: 45.4 dB @62.5 MHz          Guaranteed: 42.3 dB @100 MHz          Guaranteed: 40.8 dB @125 MHz          Guaranteed: 37.8 dB @200 MHz          Guaranteed: 36.3 dB @250 MHz</p>
Equal level far end crosstalk [ELFEXT]	<p>Guaranteed: 56 dB @4 MHz          Guaranteed: 48 dB @10 MHz          Guaranteed: 43.9 dB @16 MHz          Guaranteed: 42 dB @20 MHz          Guaranteed: 38.1 dB @31.25 MHz          Guaranteed: 32.1 dB @62.5 MHz          Guaranteed: 28 dB @100 MHz          Guaranteed: 26.1 dB @125 MHz          Guaranteed: 22 dB @200 MHz          Guaranteed: 20 dB @250 MHz</p>
Power sum equal level far end-crosstalk [PSELFEXT]	<p>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</p>
Input impedance	100 Ohm @1...250 MHz
Delay skew	<= 45 ns @1...250 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	<p>&gt;= 85 dB from 30...100 MHz (IEC 61156-5, ed. 2 type Ia)          &gt;= 85 - 20 x log<sub>10</sub>(f / 100) dB from 100...1000 MHz (IEC 61156-5, ed. 2 type Ia)</p>
Segregation class	Class d (EN 50174-2)
Nominal velocity propagation	70 %
Pulling force	<= 392 N
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	68.5 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 : EN 50288-5-1 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 1723 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Product Life Status : **Commercialised**