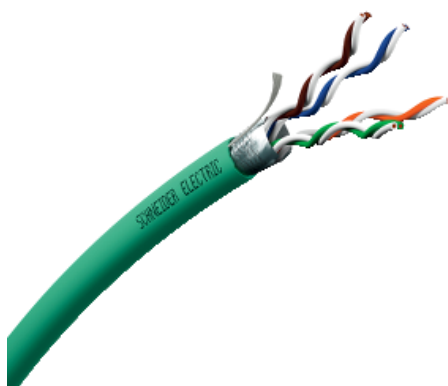




## Main

|                           |               |
|---------------------------|---------------|
| Range                     | Actassi       |
| Product or component type | Network cable |
| Cable packaging           | Drum of 500 m |
| Colour tint               | Green         |
| Cable shielding type      | SF/UTP        |

## Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Localisation on device         | Jacket : LSZH (low smoke zero halogen)<br>Conductor : solid bare copper<br>Wire insulation : PE (polyethylene)                                                                                                                                                                                                                                                                         |
| Type of cable                  | 4 twisted-pairs cable                                                                                                                                                                                                                                                                                                                                                                  |
| Communication network category | 6                                                                                                                                                                                                                                                                                                                                                                                      |
| Communication port protocol    | VoIP (Voice IP)<br>PoE 15W (Power over Ethernet)<br>PoE+ 30W (Power over Ethernet Plus)                                                                                                                                                                                                                                                                                                |
| Communication network type     | 1000BASE-T                                                                                                                                                                                                                                                                                                                                                                             |
| Return loss                    | Guaranteed: $\geq 23$ dB @4 MHz<br>Guaranteed: $\geq 25$ dB @10 MHz<br>Guaranteed: $\geq 25$ dB @16 MHz<br>Guaranteed: $\geq 25$ dB @20 MHz<br>Guaranteed: $\geq 18$ dB @200 MHz<br>Guaranteed: $\geq 17.3$ dB @250 MHz<br>Guaranteed: $\geq 23.6$ dB @31.25 MHz<br>Guaranteed: $\geq 21.5$ dB @62.5 MHz<br>Guaranteed: $\geq 20.1$ dB @100 MHz<br>Guaranteed: $\geq 19.4$ dB @125 MHz |
| Attenuation                    | 3.8 dB at 4 MHz<br>6 dB at 10 MHz<br>7.6 dB at 16 MHz<br>8.5 dB at 20 MHz<br>10.7 dB at 31.25 MHz<br>15.5 dB at 62.5 MHz<br>19.9 dB at 100 MHz                                                                                                                                                                                                                                         |

|                                                    |                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | 22.5 dB at 125 MHz<br>29.1 dB at 200 MHz<br>33 dB at 250 MHz                                                                                                                                                                                                                                                               |
| Power sum near-end crosstalk [PS NEXT]             | Guaranteed: 63.3 dB @4 MHz<br>Guaranteed: 57.3 dB @10 MHz<br>Guaranteed: 54.2 dB @16 MHz<br>Guaranteed: 52.8 dB @20 MHz<br>Guaranteed: 49.9 dB @31.25 MHz<br>Guaranteed: 45.4 dB @62.5 MHz<br>Guaranteed: 42.3 dB @100 MHz<br>Guaranteed: 40.8 dB @125 MHz<br>Guaranteed: 37.8 dB @200 MHz<br>Guaranteed: 36.3 dB @250 MHz |
| Equal level far end crosstalk [ELFEXT]             | 56 dB at 4 MHz<br>48 dB at 10 MHz<br>56 dB<br>43.9 dB at 16 MHz<br>42 dB at 20 MHz<br>48 dB<br>38.1 dB at 31.25 MHz<br>32.1 dB at 62.5 MHz<br>43.9 dB<br>28 dB at 100 MHz<br>26.1 dB at 125 MHz<br>22 dB at 200 MHz<br>42 dB<br>20 dB at 250 MHz<br>38.1 dB<br>32.1 dB<br>28 dB<br>26.1 dB<br>22 dB<br>20 dB               |
| Power sum equal level far end crosstalk [PSELFEXT] | 53 dB at 4 MHz<br>45 dB at 10 MHz<br>40.9 dB at 16 MHz<br>39 dB at 20 MHz<br>35.1 dB at 31.25 MHz<br>29.1 dB at 62.5 MHz<br>25 dB at 100 MHz<br>23.1 dB at 125 MHz<br>19 dB at 200 MHz<br>17 dB at 250 MHz                                                                                                                 |
| Coupling attenuation                               | >= 85 dB from 30...100 MHz conforming to IEC 61156-5, ed. 2 type Ia)                                                                                                                                                                                                                                                       |
| Input impedance                                    | 100 Ohm at 1...250 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 d conforming to EN 50174-2)                                                                                                                                                                                                                                                                                          |
| Resistance unbalance                               | <= 2 %                                                                                                                                                                                                                                                                                                                     |
| Pulling force                                      | 392 N                                                                                                                                                                                                                                                                                                                      |
| Bending radius                                     | Minimum bending radius after installation : 4 x overall diameter<br>Minimum bending radius during installation : 8 x overall diameter                                                                                                                                                                                      |
| Euroclass level                                    | D                                                                                                                                                                                                                                                                                                                          |
| Nominal velocity propagation                       | 70 %                                                                                                                                                                                                                                                                                                                       |
| AWG gauge                                          | AWG 23                                                                                                                                                                                                                                                                                                                     |
| Cable outer diameter                               | 7.7 mm                                                                                                                                                                                                                                                                                                                     |
| Cable weight                                       | 68.5 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                               | 2006/95/EC - low voltage directive<br>2011/65/EU - RoHS directive |

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards | Halogen gas evolution : IEC 60754-1<br>Acidity of combustion gases : IEC 60754-2<br>Smoke generation : IEC 61034<br>Performance : EN 50173-1<br>Performance : EN 50174-1<br>Performance : ANSI/TIA/EIA-568-C.2<br>Flame propagation characteristics : IEC 60332-1<br>Installation standards : ISO/IEC 14763-2<br>Performance : EN 50288-5-1<br>Performance : IEC 61156-5 ed. 2.1<br>Performance : ISO/IEC 11801 ed. 2.2, 2011<br>Performance : ISO/IEC 11801 ed. 2.1<br>Installation standards : EN 50174-2<br>Performance : IEEE 802.3af<br>Performance : IEEE 802.3at |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Offer Sustainability

|                                  |                                                                                                                                                                                                                         |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status         | Green Premium product                                                                                                                                                                                                   |
| RoHS (date code: YYWW)           | Compliant - since 1723 - Schneider Electric declaration of conformity<br> <a href="#">Schneider Electric declaration of conformity</a> |
| REACH                            | Reference not containing SVHC above the threshold<br><a href="#">Reference not containing SVHC above the threshold</a>                                                                                                  |
| Product environmental profile    | Available<br> <a href="#">Product Environmental Profile</a>                                                                            |
| Product end of life instructions | Need no specific recycling operations                                                                                                                                                                                   |