

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Assembled PROFINET cable, CAT5e, shielded, star-quad, 22 AWG stranded (7-wire), RAL 6018 (yellow-green), RJ45 plug/IP67 push/pull plastic housing to RJ45 plug/IP20, gray, line, length: 5 m



## **Key Commercial Data**

Packing unit	1 STK
Custom tariff number	85444210
Country of origin	Poland

## Technical data

#### **Dimensions**

Length of cable	5 m

#### General data

Number of positions	4
Signal type/category	PROFINET CAT5 (IEC 11801:2002), 100 Mbps
Degree of pollution	2

## Characteristics head 1

Head type	Plug straight RJ45 Push Pull / IP67	
No. of positions (pin connector pattern)	4	
Material (component)	Plastic	

#### Characteristics head 2

Head type Plug straight RJ45 / IP20	
No. of positions (pin connector pattern)	4
Material (component)	Plastic



## Technical data

## Standards and Regulations

Flammability rating according to UL 94   V0					
Cable type         PROFINET PVC stranded CATS           Cable type (abbreviation)         93B           UL AWM style         21694           Signal type/category         PROFINET CATS (IEC 11801), 100 Mbps           Cable structure         1x4xAWC9227; FF/TQ           Conductor cross section         4x 0.34 mm²           AWG signal line         22           Conductor structure signal line         7x 0.25 mm           Core diameter including insulation         1.55 mm           Wire colors         White, yellow, blue, orange           Overall What         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath flickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥	Flammability rating according to UL 94	V0			
Cable type (abbreviation)         93B           UL AWM style         21694           Signal type/category         PROFINET CAT5 (IEC 11801), 100 Mbps           Cable structure         1x4xAWC2277; SFTQ           Conductor cross section         4x 0.34 mm²           AWC signal line         22           Conductor structure signal line         7x 0.25 mm           Core diameter including insulation         1.55 mm           Wire colors         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Auminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±2.0 m           Minimum bending radius, flexible installation         3 x D           Minimum bending radius, flexible installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         5000 Mg/km           Coop resistance         1200 O (pe	Cable				
UL AWM style         21694           Signal type/category         PROFINET CATS (IEC 11801), 100 Mbps           Cable structure         1x4xAWG2277, SF/TQ           Conductor cross section         4x 0.34 mm²           AWG signal line         22           Conductor structure signal line         7x 0.25 mm           Core diameter including insulation         1.55 mm           Wire colors         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Cuter sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MG²·km <td>Cable type</td> <td>PROFINET PVC stranded CAT5</td>	Cable type	PROFINET PVC stranded CAT5			
Signal type/category         PROFINET CATS (IEC 11801), 100 Mbps           Cable structure         1x4xAWG22/T; SF/TQ           Conductor cross section         4x 0.34 mm²           AWG signal line         22           Conductor structure signal line         7x 0.25 mm           Core diameter including insulation         1.55 mm           Wire colors         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Culter sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ² km           Loop resistance         ≥ 120 Q (per km)           Wave impedance <td< td=""><td>Cable type (abbreviation)</td><td>93B</td></td<>	Cable type (abbreviation)	93B			
Cable structure         1x4xAWG2277: SF/TQ           Conductor cross section         4x 0.34 mm²           AWG signal line         22           Conductor structure signal line         7x 0.25 mm           Core diameter including insulation         1.55 mm           Wire colors         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal speed         6.6 c	UL AWM style	21694			
Conductor cross section         4x 0.34 mm²           AWG signal line         22           Conductor structure signal line         7x 0.25 mm           Core diameter including insulation         1.55 mm           White, yellow, blue, orange         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, iner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         \$500 MD/km           Loop resistance         \$120 Ω (per km)           Wave impedance         \$15 Ω (at 100 MHz)           Signal runtime         \$3 ns/m           Coupling resistance         \$20 00 mQ/m (At 10	Signal type/category	PROFINET CAT5 (IEC 11801), 100 Mbps			
AWG signal line         22           Conductor structure signal line         7x 0.25 mm           Core diameter including insulation         1.55 mm           Wire colors         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ± 0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ± 15 Ω (at 100 MHz)           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V	Cable structure	1x4xAWG22/7; SF/TQ			
Conductor structure signal line         7x 0.25 mm           Core diameter including insulation         1.55 mm           Wire colors         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixetible installation         7 x D           Cable weight         67 kg/km           Outer sheath, malerial         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*tm           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal speed         0.66 c           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V </td <td>Conductor cross section</td> <td>4x 0.34 mm²</td>	Conductor cross section	4x 0.34 mm²			
Core diameter including insulation         1.55 mm           Wire colors         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≤ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal speed         0.66 c           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V           Test voltage Core/Shield         2000 V (50 Hz, 1 min.) </td <td>AWG signal line</td> <td>22</td>	AWG signal line	22			
Wire colors         White, yellow, blue, orange           Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ± 0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         > 500 MΩ*km           Loop resistance         < 120 Ω (per km)	Conductor structure signal line	7x 0.25 mm			
Overall twist         Star quad           Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixed installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal speed         0.66 c           Signal route         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V           Test voltage Core/Core         2000 V (50 Hz, 1 min.)           Test voltage Core/Shield         2000 V (50 Hz, 1 min.)           Flame resistance         According to UL 1685 (	Core diameter including insulation	1.55 mm			
Shielding         Aluminum-coated foil, tinned copper braided shield           Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, fixeible installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal speed         0.66 c           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V           Test voltage Core/Core         2000 V (50 Hz, 1 min.)           Test voltage Core/Shield         2000 V (50 Hz, 1 min.)           Flame resistance         According to UL 1685 (CSA FT 4)           Resistant to oil to a limit	Wire colors	White, yellow, blue, orange			
Optical shield covering         85 %           External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, flexible installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 200 MΩ*km           Vave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V           Test voltage Core/Core         2000 V (50 Hz, 1 min.)           Test voltage Core/Shield         2000 V (50 Hz, 1 min.)           Flame resistance         According to UL 1685 (CSA FT 4)           Resistant to oil to a limited extent	Overall twist	Star quad			
External sheath, color         green RAL 6018           Outer sheath thickness         approx. 0.9 mm           External cable diameter D         6.5 mm ±0.2 mm           Minimum bending radius, fixed installation         3 x D           Minimum bending radius, flexible installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal speed         0.66 c           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V           Test voltage Core/Core         2000 V (50 Hz, 1 min.)           Test voltage Core/Shield         2000 V (50 Hz, 1 min.)           Flame resistance         According to UL 1685 (CSA FT 4)           Resistance to oil         Resistant to oil to a limited extent	Shielding	Aluminum-coated foil, tinned copper braided shield			
Outer sheath thicknessapprox. $0.9 \text{ mm}$ External cable diameter D $6.5 \text{ mm} \pm 0.2 \text{ mm}$ Minimum bending radius, fixed installation $3 \times D$ Minimum bending radius, flexible installation $7 \times D$ Cable weight $67 \text{ kg/km}$ Outer sheath, materialPVCMaterial, inner sheathPVCMaterial conductor insulationPEConductor materialTin-plated Cu litz wiresInsulation resistance $\geq 500 \text{ M}\Omega^*\text{km}$ Loop resistance $\leq 120 \Omega \text{ (per km)}$ Wave impedance $100 \Omega \pm 15 \Omega \text{ (at 100 MHz)}$ Signal speed $0.66 \text{ c}$ Signal runtime $5.3 \text{ ns/m}$ Coupling resistance $\leq 20.00 \text{ m}\Omega/\text{m} \text{ (At 10 MHz)}$ Nominal voltage, cable $600 \text{ V}$ Test voltage Core/Core $2000 \text{ V (50 Hz, 1 min.)}$ Test voltage Core/Shield $2000 \text{ V (50 Hz, 1 min.)}$ Flame resistanceAccording to UL 1685 (CSA FT 4)Resistance to oilResistant to oil to a limited extent	Optical shield covering	85 %			
External cable diameter D $6.5 \text{ mm} \pm 0.2 \text{ mm}$ Minimum bending radius, fixed installation $3 \times D$ Minimum bending radius, flexible installation $7 \times D$ Cable weight $67 \text{ kg/km}$ Outer sheath, material       PVC         Material, inner sheath       PVC         Material conductor insulation       PE         Conductor material       Tin-plated Cu litz wires         Insulation resistance $\geq 500 \text{ MΩ}^{+}\text{km}$ Loop resistance $\leq 120 \Omega (\text{per km})$ Wave impedance $100 \Omega \pm 15 \Omega (\text{at } 100 \text{ MHz})$ Signal speed $0.66 \text{ c}$ Signal runtime $5.3 \text{ ns/m}$ Coupling resistance $\leq 20.00 \text{ mΩ/m (At } 10 \text{ MHz})$ Nominal voltage, cable $600 \text{ V}$ Test voltage Core/Core $2000 \text{ V (50 Hz, 1 min.)}$ Test voltage Core/Shield $2000 \text{ V (50 Hz, 1 min.)}$ Flame resistance       According to UL 1685 (CSA FT 4)         Resistant to oil to a limited extent	External sheath, color	green RAL 6018			
Minimum bending radius, fixed installation $3 \times D$ Minimum bending radius, flexible installation $7 \times D$ Cable weight $67 \text{ kg/km}$ Outer sheath, materialPVCMaterial, inner sheathPVCMaterial conductor insulationPEConductor materialTin-plated Cu litz wiresInsulation resistance $\geq 500 \text{ M}\Omega^*\text{km}$ Loop resistance $\leq 120 \Omega \text{ (per km)}$ Wave impedance $100 \Omega \pm 15 \Omega \text{ (at } 100 \text{ MHz)}$ Signal speed $0.66 \text{ c}$ Signal runtime $5.3 \text{ ns/m}$ Coupling resistance $\leq 20.00 \text{ m}\Omega/\text{m} \text{ (At } 10 \text{ MHz)}$ Nominal voltage, cable $600 \text{ V}$ Test voltage Core/Core $2000 \text{ V (50 Hz, 1 min.)}$ Test voltage Core/Shield $2000 \text{ V (50 Hz, 1 min.)}$ Flame resistance $According to \text{ UL } 1685 \text{ (CSA FT 4)}$ Resistance to oilResistant to oil to a limited extent	Outer sheath thickness	approx. 0.9 mm			
Minimum bending radius, flexible installation         7 x D           Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal speed         0.66 c           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V           Test voltage Core/Core         2000 V (50 Hz, 1 min.)           Test voltage Core/Shield         2000 V (50 Hz, 1 min.)           Flame resistance         According to UL 1685 (CSA FT 4)           Resistant to oil to a limited extent	External cable diameter D	6.5 mm ±0.2 mm			
Cable weight         67 kg/km           Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ± 15 Ω (at 100 MHz)           Signal speed         0.66 c           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V           Test voltage Core/Core         2000 V (50 Hz, 1 min.)           Test voltage Core/Shield         2000 V (50 Hz, 1 min.)           Flame resistance         According to UL 1685 (CSA FT 4)           Resistance to oil         Resistant to oil to a limited extent	Minimum bending radius, fixed installation	3 x D			
Outer sheath, material         PVC           Material, inner sheath         PVC           Material conductor insulation         PE           Conductor material         Tin-plated Cu litz wires           Insulation resistance         ≥ 500 MΩ*km           Loop resistance         ≤ 120 Ω (per km)           Wave impedance         100 Ω ±15 Ω (at 100 MHz)           Signal speed         0.66 c           Signal runtime         5.3 ns/m           Coupling resistance         ≤ 20.00 mΩ/m (At 10 MHz)           Nominal voltage, cable         600 V           Test voltage Core/Core         2000 V (50 Hz, 1 min.)           Test voltage Core/Shield         2000 V (50 Hz, 1 min.)           Flame resistance         According to UL 1685 (CSA FT 4)           Resistant to oil to a limited extent	Minimum bending radius, flexible installation	7 x D			
Material, inner sheath       PVC         Material conductor insulation       PE         Conductor material       Tin-plated Cu litz wires         Insulation resistance       ≥ 500 MΩ*km         Loop resistance       ≤ 120 Ω (per km)         Wave impedance       100 Ω±15 Ω (at 100 MHz)         Signal speed       0.66 c         Signal runtime       5.3 ns/m         Coupling resistance       ≤ 20.00 mΩ/m (At 10 MHz)         Nominal voltage, cable       600 V         Test voltage Core/Core       2000 V (50 Hz, 1 min.)         Test voltage Core/Shield       2000 V (50 Hz, 1 min.)         Flame resistance       According to UL 1685 (CSA FT 4)         Resistance to oil       Resistant to oil to a limited extent	Cable weight	67 kg/km			
Material conductor insulation       PE         Conductor material       Tin-plated Cu litz wires         Insulation resistance       ≥ 500 MΩ*km         Loop resistance       ≤ 120 Ω (per km)         Wave impedance       100 Ω±15 Ω (at 100 MHz)         Signal speed       0.66 c         Signal runtime       5.3 ns/m         Coupling resistance       ≤ 20.00 mΩ/m (At 10 MHz)         Nominal voltage, cable       600 V         Test voltage Core/Core       2000 V (50 Hz, 1 min.)         Test voltage Core/Shield       2000 V (50 Hz, 1 min.)         Flame resistance       According to UL 1685 (CSA FT 4)         Resistance to oil       Resistant to oil to a limited extent	Outer sheath, material	PVC			
Conductor material       Tin-plated Cu litz wires         Insulation resistance       ≥ 500 MΩ*km         Loop resistance       ≤ 120 Ω (per km)         Wave impedance $100 Ω ±15 Ω (at 100 MHz)$ Signal speed $0.66 c$ Signal runtime $5.3 ns/m$ Coupling resistance       ≤ $20.00 mΩ/m (At 10 MHz)$ Nominal voltage, cable $600 V$ Test voltage Core/Core $2000 V (50 Hz, 1 min.)$ Test voltage Core/Shield $2000 V (50 Hz, 1 min.)$ Flame resistance       According to UL 1685 (CSA FT 4)         Resistance to oil       Resistant to oil to a limited extent	Material, inner sheath	PVC			
Insulation resistance       ≥ 500 MΩ*km         Loop resistance       ≤ 120 Ω (per km)         Wave impedance $100 Ω ±15 Ω (at 100 MHz)$ Signal speed $0.66 c$ Signal runtime $5.3 ns/m$ Coupling resistance       ≤ $20.00 mΩ/m (At 10 MHz)$ Nominal voltage, cable $600 V$ Test voltage Core/Core $2000 V (50 Hz, 1 min.)$ Test voltage Core/Shield $2000 V (50 Hz, 1 min.)$ Flame resistance       According to UL 1685 (CSA FT 4)         Resistance to oil       Resistant to oil to a limited extent	Material conductor insulation	PE			
Loop resistance $\leq 120  \Omega  (\text{per km})$ Wave impedance $100  \Omega \pm 15  \Omega  (\text{at } 100  \text{MHz})$ Signal speed $0.66  \text{c}$ Signal runtime $5.3  \text{ns/m}$ Coupling resistance $\leq 20.00  \text{m} \Omega / \text{m}  (\text{At } 10  \text{MHz})$ Nominal voltage, cable $600  \text{V}$ Test voltage Core/Core $2000  \text{V}  (50  \text{Hz}, 1  \text{min.})$ Test voltage Core/Shield $2000  \text{V}  (50  \text{Hz}, 1  \text{min.})$ Flame resistanceAccording to UL 1685 (CSA FT 4)Resistance to oilResistant to oil to a limited extent	Conductor material	Tin-plated Cu litz wires			
Wave impedance $100 Ω ±15 Ω (at 100 MHz)$ Signal speed $0.66 c$ Signal runtime $5.3 \text{ ns/m}$ Coupling resistance $≤ 20.00 \text{ mΩ/m (At 10 MHz)}$ Nominal voltage, cable $600 V$ Test voltage Core/Core $2000 V (50 \text{ Hz}, 1 \text{ min.})$ Test voltage Core/Shield $2000 V (50 \text{ Hz}, 1 \text{ min.})$ Flame resistanceAccording to UL 1685 (CSA FT 4)Resistance to oilResistant to oil to a limited extent	Insulation resistance	$\geq 500~\text{M}\Omega^*\text{km}$			
Signal speed       0.66 c         Signal runtime       5.3 ns/m         Coupling resistance       ≤ 20.00 mΩ/m (At 10 MHz)         Nominal voltage, cable       600 V         Test voltage Core/Core       2000 V (50 Hz, 1 min.)         Test voltage Core/Shield       2000 V (50 Hz, 1 min.)         Flame resistance       According to UL 1685 (CSA FT 4)         Resistance to oil       Resistant to oil to a limited extent	Loop resistance	$\leq$ 120 $\Omega$ (per km)			
Signal runtime $5.3 \text{ ns/m}$ Coupling resistance≤ $20.00 \text{ mΩ/m}$ (At 10 MHz)Nominal voltage, cable $600 \text{ V}$ Test voltage Core/Core $2000 \text{ V}$ (50 Hz, 1 min.)Test voltage Core/Shield $2000 \text{ V}$ (50 Hz, 1 min.)Flame resistanceAccording to UL 1685 (CSA FT 4)Resistance to oilResistant to oil to a limited extent	Wave impedance	100 Ω ±15 Ω (at 100 MHz)			
Coupling resistance $\leq 20.00 \text{ m}\Omega/\text{m}$ (At 10 MHz)         Nominal voltage, cable       600 V         Test voltage Core/Core       2000 V (50 Hz, 1 min.)         Test voltage Core/Shield       2000 V (50 Hz, 1 min.)         Flame resistance       According to UL 1685 (CSA FT 4)         Resistance to oil       Resistant to oil to a limited extent	Signal speed	0.66 c			
Nominal voltage, cable  Fest voltage Core/Core  2000 V (50 Hz, 1 min.)  2000 V (50 Hz, 1 min.)  2000 V (50 Hz, 1 min.)  Flame resistance  According to UL 1685 (CSA FT 4)  Resistance to oil  Resistant to oil to a limited extent	Signal runtime	5.3 ns/m			
Test voltage Core/Core 2000 V (50 Hz, 1 min.)  Test voltage Core/Shield 2000 V (50 Hz, 1 min.)  Flame resistance According to UL 1685 (CSA FT 4)  Resistance to oil Resistant to oil to a limited extent	Coupling resistance	$\leq$ 20.00 m $\Omega$ /m (At 10 MHz)			
Test voltage Core/Shield  2000 V (50 Hz, 1 min.)  Flame resistance  According to UL 1685 (CSA FT 4)  Resistance to oil  Resistant to oil to a limited extent	Nominal voltage, cable	600 V			
Flame resistance According to UL 1685 (CSA FT 4)  Resistance to oil Resistant to oil to a limited extent	Test voltage Core/Core	2000 V (50 Hz, 1 min.)			
Resistance to oil Resistant to oil to a limited extent	Test voltage Core/Shield	2000 V (50 Hz, 1 min.)			
	Flame resistance	According to UL 1685 (CSA FT 4)			
Other resistance UV resistant According to UL 1581, Section 1200	Resistance to oil	Resistant to oil to a limited extent			
	Other resistance	UV resistant According to UL 1581, Section 1200			



## Technical data

### Cable

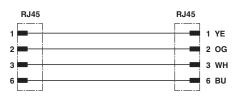
Ambient temperature (operation)	-40 °C 70 °C (cable, fixed installation)
	-40 °C 70 °C (cable, flexible installation)
Ambient temperature (installation)	-20 °C 60 °C
Ambient temperature (storage/transport)	-50 °C 70 °C

## Drawings

Cable cross section

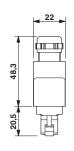


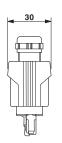
## Circuit diagram



### PROFINET PVC stranded CAT5 [93B]

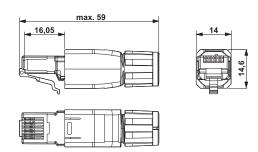
Dimensional drawing





Push-pull RJ45 connector IP65/67

#### Dimensional drawing



RJ45 connector, IP20

## Classifications

## eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27060307
eCl@ss 6.0	27061801



## Classifications

## eCl@ss

eCl@ss 7.0	27061801
eCl@ss 8.0	27060308
eCl@ss 9.0	27060308

#### **ETIM**

ETIM 3.0	EC000830
ETIM 4.0	EC002599
ETIM 5.0	EC002599

### **UNSPSC**

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31261501
UNSPSC 13.2	26121616

## Approvals

Λ.	_	_			۱,
М	υ	u	ıυ	va	เธ

Approvals

EAC

Ex Approvals

Approvals submitted

### Approval details

EAC

Phoenix Contact 2016 © - all rights reserved http://www.phoenixcontact.com