

1418109

https://www.phoenixcontact.com/us/products/1418109

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Patch cable, degree of protection: IP20, cable length: 2 m, number of positions: 8, 1 Gbps, CAT5, Ethernet

Commercial data

Item number	1418109
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	ABNABM
Catalog page	Page 374 (C-4-2015)
GTIN	4046356534345
Weight per piece (including packing)	123.8 g
Weight per piece (excluding packing)	108.8 g
Customs tariff number	85444210
Country of origin	CN



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Technical data

Product properties

Product type	Data cable preassembled
Sensor type	Ethernet
Number of positions	8
Shielded	yes

Electrical properties

Nominal voltage U _N	48 V
Transmission medium	Copper
Transmission characteristics (category)	CAT5 (IEC 11801:2002)
Wave impedance	100 Ω
Max. conductor resistance	150 mΩ/m

Material specifications

Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Connector

Connection 1

Туре	Plug straight RJ45
Shielded	yes
Handle color	black
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	TPU (Grip body)
Degree of protection	IP20

Connection 2

Туре	Plug straight RJ45
Shielded	yes
Handle color	black
Material	CuSn (Contact)
	Ni/Au (Contact surface)
	PC (Contact carriers)
	TPU (Grip body)
Degree of protection	IP20

Cable/line

Cable length	2.00 m

Ethernet flexible CAT5, 4-pair [94B]



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Cable weight 47 kg/km UL AWM Style 20963 (80°C/30 V) Number of positions 8 Shielded yes Cable type Ethernet flexible CAT5, 4-pair [948] Conductor structure 4x2xAWG267, SF/UTP Signal runtime 53 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm Ville diameter incl. insulation 0.96 mm Steternal cable diameter 6.40 mm ±0.2 mm Cuter sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foarmed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/gre	Dimensional drawing	
Number of positions 8 Shielded yes Cable type Ethernet flexible CAT5, 4-pair [94B] Conductor structure 4x2xAWG26/7, SF/UTP Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm External cable diameter 6.40 mm ±0.2 mm Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/brubue-blue, white/orange-orange, white/green-green, white/green-green, white/green-green, white/green-green, white/green-green white/brown-brown Tinkickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance ≥ 5 GΩ*km Coupling resistance ≤ 100.00 mΩ/m (at 10 MHz) Cubic especial ≤ 100 V <t< td=""><td>Cable weight</td><td>47 kg/km</td></t<>	Cable weight	47 kg/km
Shielded yes Cable type Ethernet flexible CAT5, 4-pair [94B] Conductor structure 4x2xAWG267, SF/UTP Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm External cable diameter 6.40 mm ±0.2 mm Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/green-green, white/green-green, white/green-green in the pair Tinkiness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance ≥ 5 GΩ¹km Coupling resistance ≥ 200.00 Ω/km Wave impedance 100 Ω ±5 Ω (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz) <t< td=""><td>UL AWM Style</td><td>20963 (80°C/30 V)</td></t<>	UL AWM Style	20963 (80°C/30 V)
Cable type Ethernet flexible CAT5, 4-pair [94B] Conductor structure 4x2xAWG26/7, SF/UTP Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm External cable diameter 6.40 mm ± 0.2 mm Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/green-green, white/green-green, white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance ≤ 5 Ω² km Coupling resistance ≤ 100.00 mΩ/m (at 10 MHz) Loop resistance ≤ 290.00 Ω/km Wave impedance 100 Ω ± 5 Ω (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz)	Number of positions	8
Conductor structure $4x2xAWG26/7$, SF/UTP Signal runtime 5.3 ns/m Conductor structure signal line $7x.0.16$ mm AWG signal line 26 Conductor cross section $4x.2x.0.14$ mm² Wire diameter incl. insulation 0.96 mm External cable diameter 6.40 mm ± 0.2 mm Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/green-green, white/prown-brown Thickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70% Insulation resistance 2.5 GΩ**m Coupling resistance 2.5 GΩ**m Coupling resistance 2.5 GΩ**m Wave impedance $1.00.0$ mQ/m (at 1.0 MHz) Cable capacity 4.8 nF/km (at 1.8 kHz) Nominal voltage, cable 4.5 O(3.0 km (3.0 km) Test voltage Core/Shield 70.0 v (5	Shielded	yes
Signal runtime 5.3 ns/m Conductor structure signal line 7x 0.16 mm AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm External cable diameter 6.40 mm ±0.2 mm Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foarmed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/green-green, white/green-green, white/green-green, white/green-green, white/green-green, white/green-green, white/green-green, white/green-green, white/blue-blue, white/orange-orange, white/green-green, white	Cable type	Ethernet flexible CAT5, 4-pair [94B]
Conductor structure signal line $7x 0.16 \text{ mm}$ AWG signal line 26 Conductor cross section $4x 2x 0.14 \text{ mm}^2$ Wire diameter incl. insulation 0.96 mm External cable diameter $6.40 \text{ mm} \pm 0.2 \text{ mm}$ Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs $2 \text{ cores to the pair}$ Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance $2 \text{ 5 } G\Omega' \text{ km}$ Coupling resistance $2 \text{ 5 } G\Omega' \text{ km}$ Wave impedance $100 \text{ M} \Omega \text{ m} \Omega \text{ MHz}$ Cable capacity $48 \text{ n} \text{ Fkm} \text{ (at 1 kHz})}$ Nominal voltage, cable $100 \text{ N} \Omega \text{ (so Hz, 1 min.)}$ Test voltage Core/Shield Minimum bending radius, fixed installation $100 \text{ m} \Omega \text{ mm} \Omega m$	Conductor structure	4x2xAWG26/7, SF/UTP
AWG signal line 26 Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation 0.96 mm External cable diameter 6.40 mm \pm 0.2 mm Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Culltz wires Material wire insulation Foamed PE Single wire, color white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance \pm 5 G Ω *km Coupling resistance \pm 5 G Ω *km Cuping resistance \pm 5 000 m Ω /m (at 10 MHz) Loop resistance \pm 100.00 m Ω /m (at 1 kHz) Wave impedance 100 Ω ±5 Ω (at 100 MHz) Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, fixed installation 52 mm	Signal runtime	5.3 ns/m
Conductor cross section 4x 2x 0.14 mm² Wire diameter incl. insulation External cable diameter 0.40 mm ± 0.2 mm Outer sheath, material PUR External sheath, color conductor material Bare Cu litz wires Material wire insulation Foarmed PE Single wire, color white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance Coupling resistance Coupling resistance $\leq 5 \text{ GO*km}$ Wave impedance 100 $\Omega \pm 5 \Omega$ (at 100 MHz) Test voltage, cable Test voltage Core/Shield Minimum bending radius, fixed installation Smallest bending radius, fixed installation Smallest bending radius, fixed installation External Sare Cu litz mm² 6.40 mm ± 0.2 mm Average metal to support the pair Overall twist 1.05 mm 1.05 mm 1.05 mm 1.05 mm 2 cores to the pair 2 cores	Conductor structure signal line	7x 0.16 mm
Wire diameter incl. insulation 0.96 mm External cable diameter 6.40 mm ±0.2 mm Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Coupling resistance ≤ 5 Ω *km Coupling resistance ≤ 100.00 m Ω /m (at 10 MHz) Loop resistance ≤ 290.00 Ω /km Wave impedance 100 Ω ± 5 Ω (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz) Nominal voltage, cable ≤ 100 V Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	AWG signal line	26
External cable diameter $6.40 \text{ mm} \pm 0.2 \text{ mm}$ Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/green-green, white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs $2 \text{ cores to the pair}$ Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance 2 SG0*km Coupling resistance 2 50.00 m/m (at 10 MHz) Loop resistance $2 \text{ 290.00 } \Omega \text{ M/m}$ Wave impedance $100 \Omega \pm 5 \Omega$ (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz) Nominal voltage, cable 2 100 V Test voltage Core/Core $700 \text{ V (50 Hz, 1 min.)}$ Test voltage Core/Shield $700.00 \text{ V (50 Hz, 1 min.)}$ Minimum bending radius, fixed installation 4 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 26 mm </td <td>Conductor cross section</td> <td>4x 2x 0.14 mm²</td>	Conductor cross section	4x 2x 0.14 mm²
Outer sheath, material PUR External sheath, color water blue RAL 5021 Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance $\geq 5 \text{ GO*km}$ Coupling resistance $\leq 100.00 \text{ mΩ/m} \text{ (at } 10 \text{ MHz)}$ Loop resistance $\leq 290.00 \text{ Ω/km}$ Wave impedance $100 \Omega \pm 5 \Omega \text{ (at } 100 \text{ MHz)}$ Cable capacity $48 \text{ nF/km} \text{ (at } 1 \text{ kHz)}$ Nominal voltage, cable $\leq 100 \text{ V}$ Test voltage Core/Core $700 \text{ V (50 Hz, 1 min.)}$ Test voltage Core/Shield $700.00 \text{ V (50 Hz, 1 min.)}$ Minimum bending radius, fixed installation $4 \times D$ Minimum bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Wire diameter incl. insulation	0.96 mm
External sheath, color Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance	External cable diameter	6.40 mm ±0.2 mm
Conductor material Bare Cu litz wires Material wire insulation Foamed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance ≥ 5 GΩ*km Coupling resistance ≤ 100.00 mΩ/m (at 10 MHz) Loop resistance ≤ 290.00 Ω /km Wave impedance 100 $\Omega \pm 5 \Omega$ (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz) Nominal voltage, cable ≤ 100 V (50 Hz, 1 min.) Test voltage Core/Core 700 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Outer sheath, material	PUR
Material wire insulation Foamed PE Single wire, color white/blue-blue, white/orange-orange, white/green-green, white/brown-brown Thickness, outer sheath 1.05 mm Twisted pairs 2 cores to the pair Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance ≥ 5 GΩ*km Coupling resistance ≤ 100.00 mΩ/m (at 10 MHz) Loop resistance ≤ 290.00 Ω/km Wave impedance 100 Ω ±5 Ω (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz) Nominal voltage, cable ≤ 100 V Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, fixed installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	External sheath, color	water blue RAL 5021
Single wire, colorwhite/blue-blue, white/orange-orange, white/green-green, white/brown-brownThickness, outer sheath 1.05 mm Twisted pairs $2 \text{ cores to the pair}$ Overall twist 4 pairs for core Optical shield covering 70% Insulation resistance $\geq 5 \text{ G}\Omega^*\text{km}$ Coupling resistance $\leq 100.00 \text{ m}\Omega/\text{m}$ (at 10 MHz)Loop resistance $\leq 290.00 \Omega/\text{km}$ Wave impedance $100 \Omega \pm 5 \Omega$ (at 100 MHz)Cable capacity 48 nF/km (at 1 kHz)Nominal voltage, cable $\leq 100 \text{ V}$ Test voltage Core/Core $700 \text{ V (50 Hz, 1 min.)}$ Test voltage Core/Shield $700.00 \text{ V (50 Hz, 1 min.)}$ Minimum bending radius, fixed installation $4 \times D$ Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Conductor material	Bare Cu litz wires
Thickness, outer sheath 1.05 mm Twisted pairs $2 \text{ cores to the pair}$ Overall twist 4 pairs for core Optical shield covering 70% Insulation resistance $\geq 5 \text{ G}\Omega^*\text{km}$ Coupling resistance $\leq 100.00 \text{ m}\Omega/\text{m}$ (at 10 MHz)Loop resistance $\leq 290.00 \Omega/\text{km}$ Wave impedance $100 \Omega \pm 5 \Omega$ (at 100 MHz)Cable capacity 48 nF/km (at 1 kHz)Nominal voltage, cable $\leq 100 \text{ V}$ Test voltage Core/Core 700 V (50 Hz , 1 min.)Test voltage Core/Shield 700.00 V (50 Hz , 1 min.)Minimum bending radius, fixed installation $4 \times D$ Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Material wire insulation	Foamed PE
Twisted pairs2 cores to the pairOverall twist4 pairs for coreOptical shield covering70 %Insulation resistance $\geq 5 \text{ G}\Omega^*\text{km}$ Coupling resistance $\leq 100.00 \text{ m}\Omega/\text{m} (\text{at } 10 \text{ MHz})$ Loop resistance $\leq 290.00 \Omega/\text{km}$ Wave impedance $100 \Omega \pm 5 \Omega (\text{at } 100 \text{ MHz})$ Cable capacity $48 \text{ nF/km} (\text{at } 1 \text{ kHz})$ Nominal voltage, cable $\leq 100 \text{ V}$ Test voltage Core/Core $700 \text{ V} (50 \text{ Hz}, 1 \text{ min.})$ Test voltage Core/Shield $700.00 \text{ V} (50 \text{ Hz}, 1 \text{ min.})$ Minimum bending radius, fixed installation $4 \times D$ Minimum bending radius, fixed installation $8 \times D$ Smallest bending radius, movable installation 26 mm Smallest bending radius, movable installation 52 mm	Single wire, color	
Overall twist 4 pairs for core Optical shield covering 70 % Insulation resistance ≥ 5 G Ω *km Coupling resistance ≤ 100.00 m Ω /m (at 10 MHz) Loop resistance ≤ 290.00 Ω /km Wave impedance 100 Ω ±5 Ω (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz) Nominal voltage, cable ≤ 100 V Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, fixed installation 8 x D Smallest bending radius, movable installation 52 mm	Thickness, outer sheath	1.05 mm
Optical shield covering 70 % Insulation resistance ≥ 5 G Ω *km Coupling resistance ≤ 100.00 m Ω /m (at 10 MHz) Loop resistance ≤ 290.00 Ω /km Wave impedance 100 Ω ±5 Ω (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz) Nominal voltage, cable ≤ 100 V Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, fixed installation 8 x D Smallest bending radius, movable installation 52 mm	Twisted pairs	2 cores to the pair
Insulation resistance ≥ 5 GΩ*km Coupling resistance ≤ 100.00 mΩ/m (at 10 MHz) Loop resistance ≤ 290.00 Ω/km Wave impedance 100 Ω ±5 Ω (at 100 MHz) Cable capacity 48 nF/km (at 1 kHz) Nominal voltage, cable ≤ 100 V Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, flexible installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Overall twist	4 pairs for core
Coupling resistance≤ 100.00 mΩ/m (at 10 MHz)Loop resistance≤ 290.00 Ω/kmWave impedance $100 Ω ±5 Ω (at 100 MHz)$ Cable capacity $48 nF/km (at 1 kHz)$ Nominal voltage, cable≤ 100 VTest voltage Core/Core $700 V (50 Hz, 1 min.)$ Test voltage Core/Shield $700.00 V (50 Hz, 1 min.)$ Minimum bending radius, fixed installation $4 × D$ Minimum bending radius, flexible installation $8 × D$ Smallest bending radius, fixed installation $26 mm$ Smallest bending radius, movable installation $52 mm$	Optical shield covering	70 %
Loop resistance≤ 290.00 Ω/kmWave impedance $100 Ω ±5 Ω (at 100 MHz)$ Cable capacity $48 nF/km (at 1 kHz)$ Nominal voltage, cable≤ $100 V$ Test voltage Core/Core $700 V (50 Hz, 1 min.)$ Test voltage Core/Shield $700.00 V (50 Hz, 1 min.)$ Minimum bending radius, fixed installation $4 × D$ Minimum bending radius, flexible installation $8 × D$ Smallest bending radius, fixed installation $26 mm$ Smallest bending radius, movable installation $52 mm$	Insulation resistance	≥ 5 GΩ*km
Wave impedance $100 Ω ±5 Ω (at 100 MHz)$ Cable capacity $48 nF/km (at 1 kHz)$ Nominal voltage, cable≤ $100 V$ Test voltage Core/Core $700 V (50 Hz, 1 min.)$ Test voltage Core/Shield $700.00 V (50 Hz, 1 min.)$ Minimum bending radius, fixed installation $4 × D$ Minimum bending radius, flexible installation $8 × D$ Smallest bending radius, movable installation $26 mm$ Smallest bending radius, movable installation $52 mm$	Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)
Cable capacity 48 nF/km (at 1 kHz) Nominal voltage, cable ≤ 100 V Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, flexible installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Loop resistance	≤ 290.00 Ω/km
Nominal voltage, cable ≤ 100 V Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, flexible installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, flexible installation 8 x D Smallest bending radius, movable installation 26 mm Smallest bending radius, movable installation 52 mm	Cable capacity	48 nF/km (at 1 kHz)
Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Minimum bending radius, fixed installation 4 x D Minimum bending radius, flexible installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Nominal voltage, cable	≤ 100 V
Minimum bending radius, fixed installation 4 x D Minimum bending radius, flexible installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Test voltage Core/Core	700 V (50 Hz, 1 min.)
Minimum bending radius, flexible installation 8 x D Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Test voltage Core/Shield	700.00 V (50 Hz, 1 min.)
Smallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Minimum bending radius, fixed installation	4 x D
Smallest bending radius, movable installation 52 mm	Minimum bending radius, flexible installation	8 x D
	Smallest bending radius, fixed installation	26 mm
Tensile strength ≤ 100 N	Smallest bending radius, movable installation	52 mm
	Tensile strength	≤ 100 N



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Near end crosstalk attenuation (NEXT)	62.3 dB (at 4 MHz)
	56.3 dB (at 10 MHz)
	53.2 dB (at 16 MHz)
	51.8 dB (at 20 MHz)
	48.9 dB (at 31.25 MHz)
	44.4 dB (at 62.5 MHz)
	41.3 dB (at 100 MHz)
Power-summated near end crosstalk attenuation (PSNEXT)	62.3 dB (with 1 MHz)
	53.3 dB (at 4 MHz)
	47.3 dB (at 10 MHz)
	44.2 dB (at 16 MHz)
	42.8 dB (at 20 MHz)
	39.9 dB (at 31.25 MHz)
	35.4 dB (at 62.5 MHz)
	32.3 dB (at 100 MHz)
Return attenuation (RL)	23 dB (at 4 MHz)
	24.1 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	23.6 dB (at 31.25 MHz)
	21.5 dB (at 62.5 MHz)
	20.1 dB (at 100 MHz)
Shield attenuation	3.2 dB (with 1 MHz)
	6 dB (at 4 MHz)
	9.5 dB (at 10 MHz)
	12.1 dB (at 16 MHz)
	13.6 dB (at 20 MHz)
	17.1 dB (at 31.25 MHz)
	24.8 dB (at 62.5 MHz)
	32 dB (at 100 MHz)
Halogen-free	according to IEC 60754-1
Flame resistance	according to IEC 60332-1-2
Resistance to oil	in accordance with EN 60811-2-1
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (Cable, flexible installation)
Ambient temperature (installation)	-20 °C 80 °C

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-10 °C 50 °C (Flexibly installed)



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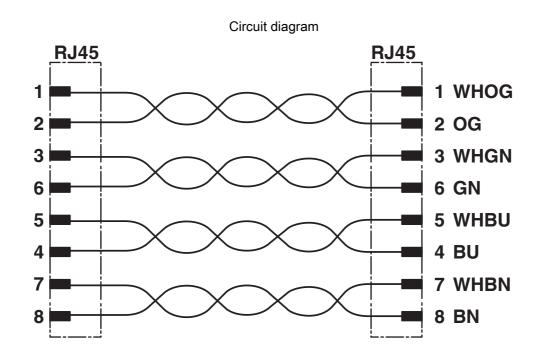
	-25 °C 60 °C (fixed routing)
Resistance to oil	in accordance with DIN EN 60811-2-1
Standards and regulations	
tandards and regulations	
Flame resistance	complying with IEC 60332-2-2
Resistance to oil	in accordance with DIN EN 60811-2-1
Concentration of fumes	in accordance with IEC 61034-1/2
Other resistance	Resistant to ozone
	hydrolysis and microbe resistant

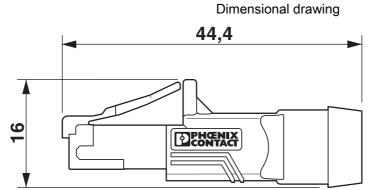


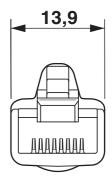
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Drawings







RJ45 connector, IP20



1418109

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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