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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.

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## 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









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Assembled Ethernet cable, shielded, 4-pair, AWG 26 flexible cable conduit capable (19-wire), RAL 5021 (sea blue), RJ45 connector/IP67 gray to RJ45 connector/IP67, gray, line, length 10 m



### **Key Commercial Data**

Packing unit	1 STK
GTIN	4 046356 475761
GTIN	4046356475761

### Technical data

#### **Dimensions**

Length of cable	10 m

#### Ambient conditions

	I
Degree of protection	IP67

#### General data

Number of positions	8
Signal type/category	Ethernet
Degree of pollution	2
	2
Alternative short product description	Ethernet cable

#### Characteristics head 1

Head type	Plug straight RJ45
No. of positions (pin connector pattern)	8

#### Characteristics head 2

Head type	Plug straight RJ45
No. of positions (pin connector pattern)	8



### Technical data

#### Standards and Regulations

Write coors     brown       Twisted pairs     2 cores to the pair       Overall twist     Four pairs and four fillers to the core       Shielding     Tinned copper braided shield       Optical shield covering     90 %       External sheath, color     water blue RAL 5021       Outer sheath thickness     0.85 mm       External cable diameter D     6.9 mm +0.1 mm - 0.2 mm       Minimum bending radius, fixed installation     4 x D       Minimum bending radius, flexible installation     8 x D       Number of bending cycles     5000000       Minimum bending radius, drag chain applications     7,5 x D       Traversing rate     3 m/s       Acceleration     5 m/s²       Tensile strength short-term/long-term     ≤ 100 N       Cable weight     57 kg/km       Outer sheath, material     PUR       Material conductor insulation     PP       Conductor material     Bare Cu litz wires       Insulation resistance     ≥ 500 MΩ*km	Flammability rating according to UL 94	V2
Cable type (abbreviation)         94C           UL AWM style         20963 (80°C/30 V)           Signal type/category         Ethernet CATS (IEC 11801), 1 Gbps           Cable structure         4x2xAWG26/19; S/UTP           Conductor cross section         4x 2x 0.14 mm²           AWG signal line         26           Conductor structure signal line         19x 0.10 mm           Core diameter including insulation         1 mm           Wire colors         white/blue-blue, white/orange-orange, white/green-green, white/forown brown           Twisted pairs         2 cores to the pair           Overall twist         Four pairs and four fillers to the core           Shielding         Tinned copper braided shield           Optical shield covering         90 %           External sheath, color         water blue RAL 5021           Outer sheath thickness         0.85 mm           External cable diameter D         6.9 mm +0.1 mm - 0.2 mm           Minimum bending radius, fixed installation         4 x D           Minimum bending radius, fixed installation         8 x D           Number of bending cycles         5000000           Minimum bending radius, drag chain applications         7,5 x D           Traversing rate         3 m/s           Acceleration         5 m/s²<	Cable	
UL AVM style         20963 (80°C/30 V)           Signal type/category         Ethernet CAT5 (IEC 11801), 1 Gbps           Cable structure         4x2xAWG26/19; S/UTP           Conductor cross section         4x 2x 0.14 mm²           AWG signal line         26           Conductor structure signal line         19x 0.10 mm           Core diameter including insulation         1 mm           Wire colors         white/blue-blue, white/orange-orange, white/green-green, white/brown brown           Twisted pairs         2 cores to the pair           Overall twist         Four pairs and four fillers to the core           Shielding         Tinned copper braided shield           Optical shield covering         90 %           External sheath, color         water blue RAL 5021           Outer sheath thickness         0.85 mm           External cable diameter D         6.9 mm +0.1 mm - 0.2 mm           Minimum bending radius, fixed installation         4 x D           Minimum bending radius, flexible installation         8 x D           Number of bending cycles         5000000           Minimum bending radius, drag chain applications         7.5 x D           Traversing rate         3 m/s           Acceleration         5 m/s²           Tensite strength short-term/long-term	Cable type	Ethernet drag chain CAT5
Signal type/category         Ethernet CAT5 (IEC 11801), 1 Gbps           Cable structure         4x2xAWG26/19; S/UTP           Conductor cross section         4x 2x 0.14 mm²           AWG signal line         26           Conductor structure signal line         19x 0.10 mm           Core diameter including insulation         1 mm           Wire colors         white/blue-blue, white/orange-orange, white/green-green, white/prown brown           Twisted pairs         2 cores to the pair           Overall twist         Four pairs and four fillers to the core           Shielding         Tinned copper braided shield           Optical shield covering         90 %           External sheath, color         water blue RAL 5021           Outer sheath thickness         0.85 mm           External cable diameter D         6.9 mm +0.1 mm - 0.2 mm           Minimum bending radius, fixed installation         4 x D           Minimum bending radius, flexible installation         8 x D           Number of bending cycles         5000000           Minimum bending radius, drag chain applications         7,5 x D           Traversing rate         3 m/s           Acceleration         5 m/s²           Tensile strength short-term/long-term         ≤ 100 N           Cable weight	Cable type (abbreviation)	94C
Cable structure	UL AWM style	20963 (80°C/30 V)
Conductor cross section  4x 2x 0.14 mm²  AWG signal line  26  Conductor structure signal line  19x 0.10 mm  Core diameter including insulation  1 mm  Wire colors  Twisted pairs  2 cores to the pair  Overall twist  Four pairs and four fillers to the core  Shielding  Tinned copper braided shield  Optical shield covering  External sheath, color  Outer sheath thickness  External cable diameter D  Minimum bending radius, fixed installation  Minimum bending radius, fixed installation  Number of bending cycles  Minimum bending radius, drag chain applications  Traversing rate  Acceleration  5 m/s²  Tensile strength short-term/long-term  ≤ 100 N  Cable weight  Outer sheath, material  Material conductor insulation  PC  Conductor material  Bare Cu litz wires  ≥ 500 MΩ¹km	Signal type/category	Ethernet CAT5 (IEC 11801), 1 Gbps
AWG signal line  Conductor structure signal line  Core diameter including insulation  I mm  Wire colors  white/blue-blue, white/orange-orange, white/green-green, white/brown brown  Twisted pairs  2 cores to the pair  Overall twist  Four pairs and four fillers to the core  Shielding  Optical shield covering  External sheath, color  Outer sheath thickness  External cable diameter D  Minimum bending radius, fixed installation  Minimum bending radius, fixed installation  Minimum bending radius, flexible installation  Minimum bending radius, drag chain applications  Traversing rate  Acceleration  Tensile strength short-term/long-term  Sare Unitz wires  Letter with the core  190 %  100 N  10	Cable structure	4x2xAWG26/19; S/UTP
Conductor structure signal line       19x 0.10 mm         Core diameter including insulation       1 mm         Wire colors       white/blue-blue, white/orange-orange, white/green-green, white/brown brown         Twisted pairs       2 cores to the pair         Overall twist       Four pairs and four fillers to the core         Shielding       Tinned copper braided shield         Optical shield covering       90 %         External sheath, color       water blue RAL 5021         Outer sheath thickness       0.85 mm         External cable diameter D       6.9 mm +0.1 mm - 0.2 mm         Minimum bending radius, fixed installation       4 x D         Minimum bending radius, flexible installation       8 x D         Number of bending cycles       5000000         Minimum bending radius, drag chain applications       7,5 x D         Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	Conductor cross section	4x 2x 0.14 mm²
Core diameter including insulation       1 mm         Wire colors       white/blue-blue, white/orange-orange, white/green-green, white/brown brown         Twisted pairs       2 cores to the pair         Overall twist       Four pairs and four fillers to the core         Shielding       Tinned copper braided shield         Optical shield covering       90 %         External sheath, color       water blue RAL 5021         Outer sheath thickness       0.85 mm         External cable diameter D       6.9 mm +0.1 mm - 0.2 mm         Minimum bending radius, fixed installation       4 x D         Minimum bending radius, flexible installation       8 x D         Number of bending cycles       5000000         Minimum bending radius, drag chain applications       7,5 x D         Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	AWG signal line	26
Wire colors       white/blue-blue, white/orange-orange, white/green-green, white/brown brown         Twisted pairs       2 cores to the pair         Overall twist       Four pairs and four fillers to the core         Shielding       Tinned copper braided shield         Optical shield covering       90 %         External sheath, color       water blue RAL 5021         Outer sheath thickness       0.85 mm         External cable diameter D       6.9 mm +0.1 mm - 0.2 mm         Minimum bending radius, fixed installation       4 x D         Minimum bending radius, flexible installation       8 x D         Number of bending cycles       5000000         Minimum bending radius, drag chain applications       7,5 x D         Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	Conductor structure signal line	19x 0.10 mm
Twisted pairs       2 cores to the pair         Overall twist       Four pairs and four fillers to the core         Shielding       Tinned copper braided shield         Optical shield covering       90 %         External sheath, color       water blue RAL 5021         Outer sheath thickness       0.85 mm         External cable diameter D       6.9 mm +0.1 mm - 0.2 mm         Minimum bending radius, fixed installation       4 x D         Minimum bending radius, flexible installation       8 x D         Number of bending cycles       5000000         Minimum bending radius, drag chain applications       7,5 x D         Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	Core diameter including insulation	1 mm
Overall twist       Four pairs and four fillers to the core         Shielding       Tinned copper braided shield         Optical shield covering       90 %         External sheath, color       water blue RAL 5021         Outer sheath thickness       0.85 mm         External cable diameter D       6.9 mm +0.1 mm - 0.2 mm         Minimum bending radius, fixed installation       4 x D         Minimum bending radius, flexible installation       8 x D         Number of bending cycles       5000000         Minimum bending radius, drag chain applications       7,5 x D         Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown
Shielding       Tinned copper braided shield         Optical shield covering       90 %         External sheath, color       water blue RAL 5021         Outer sheath thickness       0.85 mm         External cable diameter D       6.9 mm +0.1 mm - 0.2 mm         Minimum bending radius, fixed installation       4 x D         Minimum bending radius, flexible installation       8 x D         Number of bending cycles       5000000         Minimum bending radius, drag chain applications       7,5 x D         Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	Twisted pairs	2 cores to the pair
Optical shield covering         90 %           External sheath, color         water blue RAL 5021           Outer sheath thickness         0.85 mm           External cable diameter D         6.9 mm +0.1 mm - 0.2 mm           Minimum bending radius, fixed installation         4 x D           Minimum bending radius, flexible installation         8 x D           Number of bending cycles         5000000           Minimum bending radius, drag chain applications         7,5 x D           Traversing rate         3 m/s           Acceleration         5 m/s²           Tensile strength short-term/long-term         ≤ 100 N           Cable weight         57 kg/km           Outer sheath, material         PUR           Material conductor insulation         PP           Conductor material         Bare Cu litz wires           Insulation resistance         ≥ 500 MΩ*km	Overall twist	Four pairs and four fillers to the core
External sheath, color water blue RAL 5021  Outer sheath thickness 0.85 mm  External cable diameter D 6.9 mm +0.1 mm - 0.2 mm  Minimum bending radius, fixed installation 4 x D  Minimum bending radius, flexible installation 8 x D  Number of bending cycles 5000000  Minimum bending radius, drag chain applications 7,5 x D  Traversing rate 3 m/s  Acceleration 5 m/s²  Tensile strength short-term/long-term $\leq 100 \text{ N}$ Cable weight 57 kg/km  Outer sheath, material PUR  Material conductor insulation PP  Conductor material Bare Cu litz wires  Insulation resistance $\geq 500 \text{ M}\Omega^*\text{km}$	Shielding	Tinned copper braided shield
Outer sheath thickness       0.85 mm         External cable diameter D       6.9 mm +0.1 mm - 0.2 mm         Minimum bending radius, fixed installation $4 \times D$ Minimum bending radius, flexible installation $8 \times D$ Number of bending cycles       5000000         Minimum bending radius, drag chain applications $7.5 \times D$ Traversing rate $3 \text{ m/s}$ Acceleration $5 \text{ m/s}^2$ Tensile strength short-term/long-term $\leq 100 \text{ N}$ Cable weight $57 \text{ kg/km}$ Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance $\geq 500 \text{ M}\Omega^*\text{km}$	Optical shield covering	90 %
External cable diameter D 6.9 mm +0.1 mm - 0.2 mm  Minimum bending radius, fixed installation 4 x D  Minimum bending radius, flexible installation 8 x D  Number of bending cycles 5000000  Minimum bending radius, drag chain applications 7,5 x D  Traversing rate 3 m/s  Acceleration 5 m/s²  Tensile strength short-term/long-term $\leq 100 \text{ N}$ Cable weight 57 kg/km  Outer sheath, material PUR  Material conductor insulation PP  Conductor material Bare Cu litz wires  Insulation resistance $\geq 500 \text{ M}\Omega^*\text{km}$	External sheath, color	water blue RAL 5021
Minimum bending radius, fixed installation $4 \times D$ Minimum bending radius, flexible installation $8 \times D$ Number of bending cycles $5000000$ Minimum bending radius, drag chain applications $7.5 \times D$ Traversing rate $3 \text{ m/s}$ Acceleration $5 \text{ m/s}^2$ Tensile strength short-term/long-term $≤ 100 \text{ N}$ Cable weight $57 \text{ kg/km}$ Outer sheath, materialPURMaterial conductor insulationPPConductor materialBare Cu litz wiresInsulation resistance $≥ 500 \text{ MΩ*km}$	Outer sheath thickness	0.85 mm
Minimum bending radius, flexible installation       8 x D         Number of bending cycles       5000000         Minimum bending radius, drag chain applications       7,5 x D         Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	External cable diameter D	6.9 mm +0.1 mm - 0.2 mm
Number of bending cycles       5000000         Minimum bending radius, drag chain applications       7,5 x D         Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term $\leq 100 \text{ N}$ Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance $\geq 500 \text{ M}\Omega^*\text{km}$	Minimum bending radius, fixed installation	4 x D
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Minimum bending radius, flexible installation	8 x D
Traversing rate       3 m/s         Acceleration       5 m/s²         Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	Number of bending cycles	5000000
	Minimum bending radius, drag chain applications	7,5 x D
Tensile strength short-term/long-term       ≤ 100 N         Cable weight       57 kg/km         Outer sheath, material       PUR         Material conductor insulation       PP         Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	Traversing rate	3 m/s
	Acceleration	5 m/s <sup>2</sup>
	Tensile strength short-term/long-term	≤ 100 N
	Cable weight	57 kg/km
Conductor material       Bare Cu litz wires         Insulation resistance       ≥ 500 MΩ*km	Outer sheath, material	PUR
Insulation resistance $\geq 500 \text{ M}\Omega^*\text{km}$	Material conductor insulation	PP
	Conductor material	Bare Cu litz wires
Loop registance	Insulation resistance	$\geq 500 \text{ M}\Omega^*\text{km}$
coop resistance   ≤ 290 Ω (per km)	Loop resistance	$\leq$ 290 $\Omega$ (per km)
Cable capacity approx. 50 nF/km (at 1 kHz)	Cable capacity	approx. 50 nF/km (at 1 kHz)
Wave impedance $100~\Omega~\pm 5~\Omega~(at~100~\text{MHz})$	Wave impedance	100 Ω ±5 Ω (at 100 MHz)
Signal runtime 5.3 ns/m	Signal runtime	5.3 ns/m
Coupling resistance ≤ 100.00 mΩ/m (At 10 MHz)	Coupling resistance	$\leq$ 100.00 m $\Omega$ /m (At 10 MHz)
Nominal voltage, cable ≤ 100 V	Nominal voltage, cable	≤ 100 V
Test voltage Core/Core 700 V (50 Hz, 1 min.)	Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield 700 V (50 Hz, 1 min.)	Test voltage Core/Shield	700 V (50 Hz, 1 min.)



### Technical data

#### Cable

Flame resistance	according to IEC 60332-1-2
Halogen-free	According to IEC 60754-1
Resistance to oil	according to 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
Ambient temperature (storage/transport)	-20 °C 80 °C

#### **Environmental Product Compliance**

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

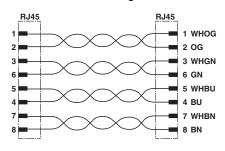
## Drawings

#### Cable cross section

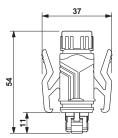


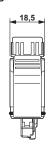
#### Ethernet drag chain CAT5 [94C]

#### Circuit diagram



#### Dimensional drawing





## Approvals

### Approvals

Approvals

EAC



## **Approvals**

Ex Approvals

#### Approval details

EAC B.00767

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany

Tel. +49 5235 300 Fax +49 5235 3 41200

http://www.phoenixcontact.com