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Network cable, Ethernet CAT6<sub>A</sub> (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded, free cable end, on free cable end, cable length: 100 m



### Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 474832
GTIN	4046356474832

### Technical data

#### Dimensions

Length of cable	100 m	
General data		
Number of positions	8	
Signal type/category	Ethernet CAT6 <sub>A</sub> , 10 Gbps	

#### Cable

Cable type	Ethernet 10 Gbit
Cable type (abbreviation)	94F
UL AWM style	20963 (80°C/30 V)
Signal type/category	Ethernet CAT6 <sub>A</sub> , 10 Gbps
Cable structure	4x2xAWG26/7; S/FTP
Conductor cross section	4x 2x 0.14 mm <sup>2</sup>
AWG signal line	26
Conductor structure signal line	7x 0.16 mm
Core diameter including insulation	1.04 mm
Wire colors	white/blue-blue, white/orange-orange, white/green-green, white/brown-brown

09/05/2019 Page 1 / 5



### Technical data

Cable

Type of pair shieldingAuminum-lined follOverall twist4 pairs for coreShieldingTimed copper braided shieldOptical shield covering70 %External sheath, colorwater blue RAL 5021Outer sheath thickness6.65 mnExternal cable diameter D6.4 mm 40.2 mmMinimum bending radus, fixet installation4 x DMinimum bending radus, fixet installation8 x DCable weight<100 NCable weight2 kg/kmOuter sheath, materialPURMaterial conductor insulationFoamed PEConductor insulation2 500 00/kmCable expacity47 nF/kmWave impedance2000 0.0kmCable capacity47 nF/kmWave impedance663 dB (cit 4 MHz)Canductor insulation (NEXT)75.3 dB (with 1 MHz)Near end crosstalk attenuation (NEXT)57.2 dB (cit 31 26 MHz)Capacity43.4 dB (cit 25 MHz)Capacity43.4 dB (cit 20 MHz)Capacity43.4 dB (cit 25 MHz)Capacity33.4 dB (cit 25 MHz)Capacity33.4 dB (cit 25 MHz) <t< th=""><th></th><th></th></t<>		
Overall twist4 pairs for coreShieldingTinned copper braided shieldOptical shield covering70 %External shealt, colorwater blue RAL 5021Outer shealt hickness0.65 mmExternal cable diameter D6.4 mm 40.2 mmMinimu bending radus, fixed installation4 x DMinimu bending radus, fixed installation8 x DCable weight2 kug/kmCuter shealt materialPURMaterial conductor insulationFoamed PEConductor insulation6300 M/kmCable weight2 s000 M/kmCable capacity47 nF/kmWater insulation (NEXT)75.3 dB (with 1 MHz)Cable capacity47 nF/kmWave impedance60.3 dB (at 0 MHz)Near end crosstalk attenuation (NEXT)53.8 dB (at 20 MHz)Cadle capacity44.4 dB (at 62 S MHz)Cadle capacity43.3 dB (at 20 MHz)Cadle capacity44.8 dB (at 80 MHz)Cadle capacity43.4 dB (at 80 MHz)Cadle capacity53.8 dB (at 20 MHz)Cadle capacity53.8 dB	Twisted pairs	2 cores to the pair
Shielding     Tinned copper braided shield       Optical shield covering     70 %       External sheath, color     water blue RAL S021       Outer sheath thickness     0.66 mm       External cable diameter D     6.4 mm ±0.2 mm       Minimum bending radius, fixeld installation     8 x D       Tensile strength GRP     ≤100 N       Cable weight     42 kg/km       Outer sheath, material     PUR       Material conductor insulation     Foarned PE       Conductor material     Bare Cu itz wires       Insulation resistance     ≤200 0.0/km       Cable weight     47 mF/km       Wave impedance     100 0 ±5 0 (at 100 MHz)       Near end crosstalk attenuation (NEXT)     75.3 dB (with 1 MHz)       Cable capacity     47 mF/km       Wave impedance     60.3 dB (at 4 MHz)       Gater constalk attenuation (NEXT)     75.3 dB (with 1 MHz)       Cable capacity     55.8 dB (at 20 MHz)       Cable capacity     63.3 dB (at 20 MHz) <	Type of pair shielding	Aluminum-lined foil
Optical sheld covering     70 %       External sheath, color     water blue RAL 5021       Outer sheath thickness     0.66 mm       External cable diameter D     6.4 mm ±0.2 mm       Minimum bending radius, fixed installation     4 x D       Minimum bending radius, fixed installation     8 x D       Tensile strength GRP     <100 N	Overall twist	4 pairs for core
External sheath, color     water blue RAL 5021       Outer sheath thickness     0.65 mm       External cable diameter D     6.4 mm ±0.2 mm       Minimum bending radius, fixed installation     8 x D       Tensile strength GRP     ≤ 100 N       Cable weight     42 kg/km       Outer sheath, material     PUR       Minimum bending radius, fixed installation     Foarmed PE       Conductor insulation     Foarmed PE       Conductor insulation     Foarmed PE       Conductor material     Bare Cu litz wires       Insulation resistance     > 500 MQ/km       Loop resistance     2 90.00 Q/km       Cable capacity     100 Ω ± 5 Ω (at 100 MHz)       Nave impedance     100 Ω ± 5 Ω (at 100 MHz)       Nave impedance     100 Ω ± 5 Ω (at 100 MHz)       Cable capacity     75.3 dB (with 1 MHz)       Gueter add and tatternation (NEXT)     75.3 dB (at 10 MHz)       Cable capacity     63.3 dB (at 20 MHz)       Gueter add and tatternation (NEXT)     75.3 dB (with 1 MHz)       Gueter add and tatternation (NEXT)     75.3 dB (with 1 MHz)       Gueter add and tatternation (NEXT)     75.3 dB (at 10 MHz)	Shielding	Tinned copper braided shield
Outer sheath thickness0.65 mmExternal cable diameter D6.4 mm ±0.2 mmMinimum bending radius, fixed installation4 x DMinimum bending radius, fixed installation8 x DTensile strengting fGRP< 100 N	Optical shield covering	70 %
External cable diameter D     6.4 mm ±0.2 mm       Minimum bending radius, fixed installation     4 x D       Minimum bending radius, fixed installation     8 x D       Tensile strength GRP     < 100 N	External sheath, color	water blue RAL 5021
Minimum bending radius, fixed installation     4 x D       Minimum bending radius, fiexible installation     8 x D       Tensile strength GRP     ≤ 100 N       Cable weight     42 kg/km       Outer sheath, material     PUR       Material conductor insulation     Foamed PE       Conductor material     Bare Cu litz wires       Insulation resistance     ≥ 500 MΩ'km       Loop resistance     ≤ 290.00 Ω/km       Cable capacity     47 nF/km       Wave impedance     000 Q ± 50 (at 100 MHz)       Near end crosstalk attenuation (NEXT)     75.3 dB (with 1 MHz)       66.3 dB (at 4 MHz)     66.3 dB (at 6 MHz)       61.8 dB (at 8 MHz)     55.8 dB (at 20 MHz)       61.9 dB (at 8 0 MHz)     55.8 dB (at 20 MHz)       61.9 dB (at 25 MHz)     52.8 dB (at 31.25 MHz)       61.9 dB (at 20 MHz)     53.9 dB (at 20 MHz)       61.9 dB (at 20 MHz)     53.9 dB (at 20 MHz)       61.9 dB (at 20 MHz)     53.9 dB (at 20 MHz)       61.9 dB (at 20 MHz)     53.9 dB (at 20 MHz)       61.9 dB (at 20 MHz)     53.9 dB (at 20 MHz)       61.9 dB (at 20 MHz)     33.9 dB (at 20 MHz)       61.9 dB (at	Outer sheath thickness	0.65 mm
Minimum bending radius, flexible installation     8 x D       Tensile strength GRP     ≤ 100 N       Cable weight     42 kg/km       Outer sheath, material     PUR       Material conductor insulation     Foamed PE       Conductor material     Bare Cu litz wires       Insulation resistance     ≥ 500 MΩ*km       Loop resistance     ≤ 290.00 Ω/km       Cable capacity     47 nF/km       Wave impedance     100 Ω ± 5 Ω (at 100 MHz)       Near end crosstalk attenuation (NEXT)     75.3 dB (with 1 MHz)       66.3 dB (at 4 MHz)     66.3 dB (at 4 MHz)       61.4 MB42     58.8 dB (at 20 MHz)       61.4 G (at 10 MHz)     58.8 dB (at 20 MHz)       61.4 G (at 10 MHz)     58.8 dB (at 20 MHz)       61.4 G (at 20 MHz)     52.8 dB (at 20 MHz)       61.4 G (at 20 MHz)     52.8 dB (at 20 MHz)       61.4 G (at 20 MHz)     48.4 dB (at 62.5 MHz)       61.4 G (at 20 MHz)     63.4 dB (at 20 MHz)       61.4 G (at 20 MHz)     33.4 dB (at 300 MHz)       61.4 G (at 20 MHz)     33.4 dB (at 200 MHz)       61.4 G (at 500 MHz)     34.8 dB (at 6500 MHz)       61.3 dB (at 400 MHz)	External cable diameter D	6.4 mm ±0.2 mm
Tensile strength GRP< 100 NCable weight42 kg/kmOuter sheath, materialPURMaterial conductor insulationFoamed PEConductor materialBare Cu litz wiresInsulation resistance> 500 MQ/kmLoop resistance< 290.00 Q/km	Minimum bending radius, fixed installation	4 x D
Cable weight     42 kg/km       Outer sheath, material     PUR       Material conductor insulation     Foamed PE       Conductor material     Bare Cu litz wires       Insulation resistance     ≥ 500 MΩ*km       Loop resistance     <290.00 Ω/km	Minimum bending radius, flexible installation	8 x D
Outer sheath, material     PUR       Material conductor insulation     Foamed PE       Conductor material     Bare Cu litz wires       Insulation resistance     ≤ 500 MC*km       Loop resistance     ≤ 200 00 D/km       Cable capacity     47 nF/km       Wave impedance     100 Ω ± 5 Ω (at 100 MHz)       Near end crosstalk attenuation (NEXT)     75.3 dB (with 1 MHz)       66.3 dB (at 4 MHz)     66.3 dB (at 4 MHz)       61.8 dB (at 8 MHz)     60.3 dB (at 10 MHz)       61.8 dB (at 8 MHz)     55.8 dB (at 20 MHz)       61.8 dB (at 20 MHz)     52.8 dB (at 20 MHz)       61.9 dB (at 31.25 MHz)     52.8 dB (at 31.25 MHz)       61.9 dB (at 20 MHz)     52.8 dB (at 20 MHz)       61.9 dB (at 20 MHz)     52.8 dB (at 20 MHz)       61.9 dB (at 20 MHz)     53.9 dB (at 25 MHz)       61.9 dB (at 20 MHz)     53.9 dB (at 25 MHz)       61.9 dB (at 200 MHz)     33.9 dB (at 250 MHz)       61.9 dB (at 200 MHz)     33.9 dB (at 250 MHz)       61.9 dB (at 200 MHz)     33.9 dB (at 250 MHz)       61.9 dB (at 000 MHz)     33.9 dB (at 250 MHz)       61.9 dB (at 000 MHz)     33.0 dB (at 400 MHz)	Tensile strength GRP	≤ 100 N
Material conductor insulation     Feamed PE       Conductor material     Bare Cu litz wires       Insulation resistance     ≥ 500 MΩ*km       Loop resistance     ≤ 290.00 Ω/km       Cable capacity     47 nF/km       Wave impedance     100 Ω ± 5 Ω (at 100 MHz)       Near end crosstalk attenuation (NEXT)     75.3 dB (with 1 MHz)       6.3 dB (at 4 MHz)     61.8 dB (at 8 MHz)       6.0 dB (at 10 MHz)     57.2 dB (at 16 MHz)       7.2 dB (at 16 MHz)     52.8 dB (at 20 MHz)       6.3 dB (at 25 MHz)     52.8 dB (at 20 MHz)       7.2 dB (at 61 MHz)     52.8 dB (at 20 MHz)       6.3 dB (at 25 MHz)     52.8 dB (at 20 MHz)       6.4 dB (at 62.5 MHz)     52.8 dB (at 20 MHz)       7.3 dB (at 20 MHz)     53.3 dB (at 20 MHz)       7.4 dB (at 62.5 MHz)     53.3 dB (at 20 MHz)       7.4 dB (at 62.5 MHz)     53.3 dB (at 20 MHz)       7.4 dB (at 62.5 MHz)     53.3 dB (at 20 MHz)       7.4 dB (at 62.5 MHz)     53.3 dB (at 20 MHz)       7.4 dB (at 62.5 MHz)     53.3 dB (at 20 MHz)       7.4 dB (at 62.5 MHz)     53.3 dB (at 20 MHz)       7.4 dB (at 63.00 MHz)     53.3 dB (at 40.00 MHz)	Cable weight	42 kg/km
Conductor material     Bare Cu litz wires       Insulation resistance     ≥ 500 MΩ*km       Loop resistance     ≤ 290.00 Ω/km       Cable capacity     47 nF/km       Wave impedance     100 Ω ± 5 Ω (at 100 MHz)       Near end crosstalk attenuation (NEXT)     75.3 dB (with 1 MHz)       6.3 dB (at 4 MHz)     61.3 dB (at 8 MHz)       6.3 dB (at 4 MHz)     60.3 dB (at 10 MHz)       7.2 dB (at 16 MHz)     55.8 dB (at 20 MHz)       6.3 dB (at 20 MHz)     52.8 dB (at 20 MHz)       6.3 dB (at 25 MHz)     52.8 dB (at 20 MHz)       6.3 dB (at 20 MHz)     52.8 dB (at 20 MHz)       6.3 dB (at 20 MHz)     52.8 dB (at 20 MHz)       6.4 dB (at 62.5 MHz)     52.8 dB (at 100 MHz)       6.3 dB (at 20 MHz)     53.3 dB (at 20 MHz)       6.4 dB (at 200 MHz)     53.3 dB (at 200 MHz)       6.3 dB (at 100 MHz)     53.3 dB (at 200 MHz)       6.3 dB (at 200 MHz)     33.3 dB (at 200 MHz)       6.3 dB (at 200 MHz)     33.3 dB (at 200 MHz)       6.3 dB (at 200 MHz)     33.3 dB (at 200 MHz)       6.4 dB (at 200 MHz)     33.3 dB (at 200 MHz)       6.3 dB (at 400 MHz)     35.3 dB (at 400 MHz)	Outer sheath, material	PUR
Insulation resistance≥ 500 MΩ*kmLoop resistance< 290.00 Ω/km	Material conductor insulation	Foamed PE
Loop resistance< 290.00 0/kmCable capacity47 nF/kmWave impedance100 0 ± 5 Ω (at 100 MHz)Near end crosstalk attenuation (NEXT)75.3 dB (with 1 MHz)66.3 dB (at 4 MHz)66.3 dB (at 4 MHz)61.8 dB (at 8 MHz)60.3 dB (at 10 MHz)61.8 dB (at 8 MHz)57.2 dB (at 16 MHz)61.8 dB (at 20 MHz)55.8 dB (at 20 MHz)61.9 dB (at 25 MHz)52.8 dB (at 31.25 MHz)61.9 dB (at 62.5 MHz)48.4 dB (at 62.5 MHz)61.9 dB (at 20 MHz)59.3 dB (at 100 MHz)61.9 dB (at 200 MHz)39.3 dB (at 250 MHz)61.9 dB (at 200 MHz)48.4 dB (at 62.5 MHz)61.9 dB (at 200 MHz)39.3 dB (at 250 MHz)61.9 dB (at 300 MHz)39.3 dB (at 250 MHz)70.9 dB (at 400 MHz)39.3 dB (at 400 MHz)70.9 dB (at 400 MHz)30.3 dB (at 400 MHz)70.9 dB (at 600 MHz)30.3 dB (at 400 MHz)70.9 dB (at 600 MHz)30.3 dB (at 400 MHz)70.9 dB (at 600 MHz)30.3 dB (at 400	Conductor material	Bare Cu litz wires
Cable capacity47 nF/kmWave impedance100 Ω ± 5 Ω (at 100 MHz)Near end crosstalk attenuation (NEXT)75.3 dB (with 1 MHz)66.3 dB (at 4 MHz)66.3 dB (at 4 MHz)61.8 dB (at 8 MHz)60.3 dB (at 10 MHz)61.9 dB (at 20 MHz)57.2 dB (at 16 MHz)61.9 dB (at 25 MHz)55.8 dB (at 20 MHz)61.9 dB (at 25 MHz)52.8 dB (at 31.25 MHz)61.9 dB (at 20 MHz)52.8 dB (at 20 MHz)61.9 dB (at 20 MHz)52.8 dB (at 20 MHz)61.9 dB (at 25 MHz)52.8 dB (at 20 MHz)61.9 dB (at 20 MHz)39.3 dB (at 250 MHz)61.9 dB (at 200 MHz)39.3 dB (at 250 MHz)61.9 dB (at 200 MHz)38.1 dB (at 300 MHz)61.9 dB (at 250 MHz)38.1 dB (at 300 MHz)61.9 dB (at 250 MHz)34.8 dB (at 500 MHz)7 Dewer-summated near end crosstalk attenuation (PSNEXT)72.3 dB (with 1 MHz)61.3 dB (at 4 MHz)53.3 dB (at 4 MHz)61.3 dB (at 4 MHz)53.8 dB (at 8 MHz)	Insulation resistance	$\geq$ 500 MΩ*km
Wave impedance     100 Ω ± 5 Ω (at 100 MHz)       Near end crosstalk attenuation (NEXT)     75.3 dB (with 1 MHz)       66.3 dB (at 4 MHz)     66.3 dB (at 4 MHz)       61.8 dB (at 8 MHz)     61.3 dB (at 10 MHz)       72.2 dB (at 16 MHz)     57.2 dB (at 16 MHz)       61.8 dB (at 2.0 MHz)     55.8 dB (at 2.0 MHz)       61.9 dB (at 2.5 MHz)     52.8 dB (at 2.5 MHz)       61.9 dB (at 2.5 MHz)     52.8 dB (at 2.0 MHz)       61.9 dB (at 2.0 MHz)     52.8 dB (at 2.0 MHz)       61.9 dB (at 2.5 MHz)     48.4 dB (at 62.5 MHz)       61.9 dB (at 2.00 MHz)     39.3 dB (at 200 MHz)       61.9 dB (at 2.00 MHz)     39.3 dB (at 200 MHz)       61.9 dB (at 2.00 MHz)     39.3 dB (at 2.00 MHz)       61.9 dB (at 2.00 MHz)     39.3 dB (at 2.00 MHz)       61.9 dB (at 2.00 MHz)     39.3 dB (at 2.00 MHz)       61.9 dB (at 300 MHz)     39.3 dB (at 2.00 MHz)       61.9 dB (at 300 MHz)     36.3 dB (at 4.00 MHz)       61.9 dB (at 2.00 MHz)     36.3 dB (at 4.00 MHz)       61.9 dB (at 2.00 MHz)     36.3 dB (at 4.00 MHz)       61.9 dB (at 3.00 MHz)     36.3 dB (at 4.00 MHz)       61.9 dB (at 3.00 MHz)     36.3 dB (at 4.00 MHz)       61	Loop resistance	≤ 290.00 Ω/km
Near end crosstalk attenuation (NEXT)     75.3 dB (with 1 MHz)       66.3 dB (at 4 MHz)     61.8 dB (at 8 MHz)       61.8 dB (at 8 MHz)     60.3 dB (at 10 MHz)       62.4 dB (at 8 MHz)     57.2 dB (at 16 MHz)       63.4 dB (at 20 MHz)     57.2 dB (at 20 MHz)       64.3 dB (at 20 MHz)     57.2 dB (at 31.25 MHz)       65.8 dB (at 20 MHz)     52.8 dB (at 2.5 MHz)       66.3 dB (at 200 MHz)     48.4 dB (at 62.5 MHz)       66.3 dB (at 200 MHz)     39.3 dB (at 200 MHz)       67.4 dB (at 62.5 MHz)     48.4 dB (at 62.5 MHz)       67.4 dB (at 200 MHz)     39.3 dB (at 200 MHz)       68.4 dB (at 200 MHz)     39.3 dB (at 200 MHz)       69.3 dB (at 200 MHz)     39.3 dB (at 250 MHz)       69.3 dB (at 400 MHz)     36.3 dB (at 400 MHz)       61.4 dB (at 500 MHz)     34.8 dB (at 500 MHz)       70.4 dB (at 500 MHz)     34.8 dB (at 500 MHz)       71.4 dB (at 500 MHz)     34.8 dB (at 500 MHz)       71.5 dB (with 1 MHz)     63.3 dB (at 4 MHz)       72.5 dB (with 1 MHz)     63.3 dB (at 4 MHz)       72.5 dB (at 8 MHz)     58.8 dB (at 8 MHz)	Cable capacity	47 nF/km
66.3 dB (at 4 MHz)     61.8 dB (at 8 MHz)     60.3 dB (at 10 MHz)     67.2 dB (at 16 MHz)     57.2 dB (at 16 MHz)     58.8 dB (at 20 MHz)     54.3 dB (at 25 MHz)     52.8 dB (at 31.25 MHz)     52.8 dB (at 31.25 MHz)     60.3 dB (at 100 MHz)     48.4 dB (at 62.5 MHz)     60.3 dB (at 200 MHz)     60.3 dB (at 200 MHz)     61.8 dB (at 200 MHz)     61.9 dB (at 300 MHz)     62.9 dB (at 400 MHz)     63.9 dB (at 400 MHz)	Wave impedance	100 Ω ±5 Ω (at 100 MHz)
61.8 dB (at 8 MHz)     60.3 dB (at 10 MHz)     57.2 dB (at 16 MHz)     57.2 dB (at 16 MHz)     58.8 dB (at 20 MHz)     54.3 dB (at 25 MHz)     52.8 dB (at 31.25 MHz)     60.3 dB (at 100 MHz)     48.4 dB (at 62.5 MHz)     52.8 dB (at 100 MHz)     60.3 dB (at 200 MHz)     60.4 dB (at 200 MHz)     60.5 dB (at 200 MHz)     60.6 dB (at 200 MHz)     60.8 dB (at 200 MHz)     60.8 dB (at 200 MHz)     60.8 dB (at 200 MHz)     70.9 dB (at 400 MHz)     81.1 dB (at 300 MHz)     82.8 dB (at 400 MHz)     90.9 dB (at 200 MHz)     90.9 dB (at 400 MHz)	Near end crosstalk attenuation (NEXT)	75.3 dB (with 1 MHz)
60.3 dB (at 10 MHz)     57.2 dB (at 16 MHz)     57.2 dB (at 20 MHz)     58.8 dB (at 20 MHz)     54.3 dB (at 25 MHz)     52.8 dB (at 31.25 MHz)     48.4 dB (at 62.5 MHz)     48.4 dB (at 62.5 MHz)     48.4 dB (at 62.5 MHz)     49.3 dB (at 200 MHz)     40.8 dB (at 300 MHz)     40.8 dB (at 400 MHz)     40.8 dB (at 400 MHz)     40.8 dB (at 500 MHz)     90 wer-summated near end crosstalk attenuation (PSNEXT)   72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)   63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)   58.8 dB (at 8 MHz)		66.3 dB (at 4 MHz)
57.2 dB (at 16 MHz)     55.8 dB (at 20 MHz)     54.3 dB (at 25 MHz)     52.8 dB (at 31.25 MHz)     60.0 dB (at 62.5 MHz)     48.4 dB (at 62.5 MHz)     61.0 MHz     45.3 dB (at 100 MHz)     61.0 MHz     61.0 MHz     61.0 MHz     62.8 dB (at 200 MHz)     63.0 dB (at 200 MHz)     63.0 dB (at 200 MHz)     64.0 dB (at 200 MHz)     65.3 dB (at 400 MHz)     65.3 dB (at 400 MHz)     90.9 dB (at 200 MHz)     72.3 dB (with 1 MHz)     Power-summated near end crosstalk attenuation (PSNEXT)   72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)   63.3 dB (at 8 MHz)		61.8 dB (at 8 MHz)
55.8 dB (at 20 MHz)     54.3 dB (at 25 MHz)     52.8 dB (at 31.25 MHz)     48.4 dB (at 62.5 MHz)     48.4 dB (at 62.5 MHz)     45.3 dB (at 100 MHz)     40.8 dB (at 200 MHz)     39.3 dB (at 250 MHz)     38.1 dB (at 300 MHz)     36.3 dB (at 400 MHz)     34.8 dB (at 500 MHz)     Power-summated near end crosstalk attenuation (PSNEXT)   72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)		60.3 dB (at 10 MHz)
54.3 dB (at 25 MHz)     52.8 dB (at 31.25 MHz)     48.4 dB (at 62.5 MHz)     48.4 dB (at 62.5 MHz)     45.3 dB (at 100 MHz)     40.8 dB (at 200 MHz)     99.3 dB (at 250 MHz)     88.1 dB (at 300 MHz)     38.1 dB (at 300 MHz)     36.3 dB (at 400 MHz)     99.3 dB (at 400 MHz)     36.3 dB (at 400 MHz)     36.3 dB (at 400 MHz)     36.3 dB (at 400 MHz)     58.8 dB (at 500 MHz)		57.2 dB (at 16 MHz)
52.8 dB (at 31.25 MHz)     48.4 dB (at 62.5 MHz)     45.3 dB (at 100 MHz)     40.8 dB (at 200 MHz)     39.3 dB (at 250 MHz)     38.1 dB (at 300 MHz)     38.1 dB (at 300 MHz)     38.1 dB (at 300 MHz)     34.8 dB (at 500 MHz)     90wer-summated near end crosstalk attenuation (PSNEXT)     72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)		55.8 dB (at 20 MHz)
48.4 dB (at 62.5 MHz)     45.3 dB (at 100 MHz)     40.8 dB (at 200 MHz)     39.3 dB (at 250 MHz)     38.1 dB (at 300 MHz)     36.3 dB (at 400 MHz)     36.3 dB (at 400 MHz)     90wer-summated near end crosstalk attenuation (PSNEXT)     72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)		54.3 dB (at 25 MHz)
45.3 dB (at 100 MHz)     40.8 dB (at 200 MHz)     39.3 dB (at 250 MHz)     38.1 dB (at 300 MHz)     36.3 dB (at 400 MHz)     36.3 dB (at 400 MHz)     90wer-summated near end crosstalk attenuation (PSNEXT)     72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)		52.8 dB (at 31.25 MHz)
40.8 dB (at 200 MHz)     39.3 dB (at 250 MHz)     38.1 dB (at 300 MHz)     36.3 dB (at 400 MHz)     34.8 dB (at 500 MHz)     Power-summated near end crosstalk attenuation (PSNEXT)     72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)		48.4 dB (at 62.5 MHz)
39.3 dB (at 250 MHz)     38.1 dB (at 300 MHz)     36.3 dB (at 400 MHz)     36.4 dB (at 500 MHz)     Power-summated near end crosstalk attenuation (PSNEXT)     72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)		45.3 dB (at 100 MHz)
38.1 dB (at 300 MHz)     36.3 dB (at 400 MHz)     34.8 dB (at 500 MHz)     Power-summated near end crosstalk attenuation (PSNEXT)     72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)		40.8 dB (at 200 MHz)
36.3 dB (at 400 MHz)     34.8 dB (at 500 MHz)     Power-summated near end crosstalk attenuation (PSNEXT)   72.3 dB (with 1 MHz)     63.3 dB (at 4 MHz)     58.8 dB (at 8 MHz)		39.3 dB (at 250 MHz)
34.8 dB (at 500 MHz)   Power-summated near end crosstalk attenuation (PSNEXT) 72.3 dB (with 1 MHz)   63.3 dB (at 4 MHz)   58.8 dB (at 8 MHz)		38.1 dB (at 300 MHz)
Power-summated near end crosstalk attenuation (PSNEXT) 72.3 dB (with 1 MHz)   63.3 dB (at 4 MHz)   58.8 dB (at 8 MHz)		36.3 dB (at 400 MHz)
63.3 dB (at 4 MHz) 58.8 dB (at 8 MHz)		34.8 dB (at 500 MHz)
58.8 dB (at 8 MHz)	Power-summated near end crosstalk attenuation (PSNEXT)	72.3 dB (with 1 MHz)
		63.3 dB (at 4 MHz)
		58.8 dB (at 8 MHz)
57.5  db (at 10 MHz)		57.3 dB (at 10 MHz)
54.2 dB (at 16 MHz)		54.2 dB (at 16 MHz)
52.8 dB (at 20 MHz)		52.8 dB (at 20 MHz)



### Technical data

#### Cable

	51.3 dB (at 25 MHz)
	49.9 dB (at 31.25 MHz)
	45.4 dB (at 62.5 MHz)
	42.3 dB (at 100 MHz)
	37.8 dB (at 200 MHz)
	36.3 dB (at 250 MHz)
	35.1 dB (at 300 MHz)
	33.3 dB (at 400 MHz)
	31.8 dB (at 500 MHz)
Attenuation	3.1 dB (with 1 MHz)
	5.7 dB (at 4 MHz)
	8 dB (at 8 MHz)
	8.9 dB (at 10 MHz)
	11.2 dB (at 16 MHz)
	12.6 dB (at 20 MHz)
	14.1 dB (at 25 MHz)
	15.8 dB (at 31.25 MHz)
	22.5 dB (at 62.5 MHz)
	28.7 dB (at 100 MHz)
	41.4 dB (at 200 MHz)
	46.6 dB (at 250 MHz)
	51.4 dB (at 300 MHz)
	60.1 dB (at 400 MHz)
	67.9 dB (at 500 MHz)
Return loss (RL)	20 dB (with 1 MHz)
	23 dB (at 4 MHz)
	24.5 dB (at 8 MHz)
	25 dB (at 10 MHz)
	25 dB (at 16 MHz)
	25 dB (at 20 MHz)
	24.2 dB (at 25 MHz)
	23.3 dB (at 31.25 MHz)
	20.7 dB (at 62.5 MHz)
	19 dB (at 100 MHz)
	16.4 dB (at 200 MHz)
	15.6 dB (at 250 MHz)
	15.6 dB (at 300 MHz)
	15.6 dB (at 400 MHz)
	15.6 dB (at 500 MHz)
Signal runtime	5.13 ns/m



## Technical data

#### Cable

Shield attenuation	≥ 80 dB (at 30 100 MHz)
Nominal voltage, cable	≤ 100 V
Test voltage Core/Core	700 V (50 Hz, 1 min.)
Test voltage Core/Shield	700 V (50 Hz, 1 min.)
Flame resistance	according to IEC 60332-1-2
Halogen-free	according to IEC 60754-1
Resistance to oil	in accordance with DIN 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: unlimited = EFUP-e
	No hazardous substances above threshold values

## Drawings



Cable cross section



Ethernet 10 Gbit [94F]

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