

https://www.phoenixcontact.com/us/products/1408730

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 documentation. Our general terms of use for downloads are valid.



Network cable, Ethernet CAT5 (100 Mbps), 4-position, PUR halogen-free, water blue RAL 5021, shielded, free cable end, on Socket straight M12, coding: D / IP67, cable length: 10 m

Commercial data

Item number	1408730 1 pc		
Packing unit			
Minimum order quantity	1 pc		
Note	Made to order (non-returnable)		
Sales key	BF15		
Product key	BF1IHA 4046356828741 453 g 453 g 85444290		
GTIN			
Weight per piece (including packing)			
Weight per piece (excluding packing)			
Customs tariff number			
Country of origin	US		

PHŒNIX

1408730

https://www.phoenixcontact.com/us/products/1408730

Technical data

Product properties

Data cable preassembled	
Standard, U.S. cables	
Ethernet	
4	
yes	
D	

Interfaces

Bus system	Ethernet
Signal type/category	Ethernet CAT5 (IEC 11801), 100 Mbps

Signaling

Status display	No
Status display present	No

Electrical properties

Nominal voltage U _N	48 V AC	
	60 V DC	
Nominal current I _N	4 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)	
Transmission medium	Copper	
Transmission characteristics (category)	CAT5 (IEC 11801:2002)	

Connector

уре	free cable end
nection 2	
Туре	Socket straight M12 / IP67
Coding type	D (Data)
Material Degree of protection	CuSn (Contact)
	Ni/Au (Contact surface)
	PA (Contact carriers)
	TPU, hardly inflammable, self-extinguishing (Grip)
	Zinc die-cast, nickel-plated (Screw connection)
	FKM (Seal)
	IP67

Cable/line

Cable length	10 m

Ethernet flexible CAT5, 2-pair [93E]



1408730

https://www.phoenixcontact.com/us/products/1408730

Dimensional drawing



Cable weight42 kg/kmUL AWN Style20681 (60° C/30 V)Wiring standards/rgulations20683 (60° C/30 V)Wiring standards/rgulations4ShieldedLechrical requirements EN 50288-2-2Chuber of posilions4ShieldedyesCable typeEthernet flexible CATS, 2-pair [63E]Conductor structure5.3 m/mConductor structure signal line5.3 m/mConductor structure signal line7.016 mAWG signal lini9.8 mConductor coss section6.40 mm 40.2 mmWire diameter incl. insulation6.40 mm 40.2 mmConductor material6.40 mm 40.2 mmConductor materialFormed PESinge wire, colorWitel/orange-orange, whitel/green-greenThickness, outer sheath1.20 mmThickness, outer sheath7.00 mmThickness, outer sheath7.00 mmThickness, outer sheath7.00 mmCoupling resistance2.000 mJ/m (at 10 MHz)Coupling resistance9.000 J/mConductor should covering9.000 J/mNonal equation2.000 J/mCoupling resistance1.000 J/mCoupling resistance9.000 J/mCoupling resistance9.000 J/mCoupling resistance9.000 J/mCoupling resistance9.000 J/mCoupling resistance9.0				
Wing standards/regulationsElectrical requirements EN 50288-2.2Number of positions4ShieldedyesCable typeEthernet flexible CATS, 2-pair [982]CableConductor structure5.3 ns/mConductor structure signal line5.3 ns/mConductor structure signal line7x 0.16 mmAWG signal line26Conductor ors section0.98 mmWire diameter incl. insulation0.98 mmOuter sheath, naterial6.40 mm 40.2 mmExternal cable diameter6.40 mm 40.2 mmOuter sheath, naterialBare Cu litz viresSingle wire, colorwater blue RAL 5021Conductor materialBare Cu litz viresSingle wire, colorwater blue RAL 5021Thickness, outer sheath1.20 mmThickness, outer sheath1.20 mmThickness, outer sheath70 %InsulationSolo MirkinCoupling resistance\$500 MirkinCoupling resistance\$500 MirkinCuping resistance\$2000 Q/kmCable capacity\$100.0 mQ/m (at 10 MHz)Cable capacity\$100.0 mQ/m (at 100 MHz)Cable capacity\$100.0 V(50 Hz, 1 min.)Text voltage Core/Shield\$100.0 V(50 Hz, 1 min.)Curret carrying capacity of cable\$200 Q/kmText voltage Core/Shield\$100.0 V(50 Hz, 1 min.)Curret carrying capacity of cable\$200 Q/km (at 10 RMz)Text voltage Core/Shield\$100.0 V(50 Hz, 1 min.)Curret carrying capacity of cable\$200 Q/km (at 10 RMz)Text volta	Cable weight 42 kg/km			
Number of positions4ShieldedyesCable kpeEthernet fiexible CATS, 2-pair [93E]Conductor structure2x2xMWG267, SF/UTPSignal runtime5.3 ns/mConductor structure signal line7x.016 mmAWG signal line7x.016 mmAWG signal line2x 2x.0.14 mm²Conductor cross section2x 2x.0.14 mm²Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialBare Cu litz wiresExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMitel diameter insulation5.00 mmConductor material2.00 mmMaterial wire insulation2.00 mmConductor material2.00 mmMaterial wire insulation2.00 mmViristed pairs2.00 mmOuter sheath1.20 mmCoupling resistance5.00 MΩ'kmCoupling resistance5.00 MQ'kmCoupling resistance5.00 MQ'km	UL AWM Style	20963 (80°C/30 V)		
ShieldedyesCable typeEthernet flexible CATS, 2-pair [93E]Canductor structure2x2xMVC26/7, SF/UTPSignal runtime5.3 ns/mConductor structure signal line7x 0.16 mmAVMG signal line26Conductor coss section2x2x.0.14 mm²Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialBer Cu litz wiresConductor cors sectionwater blue RAL 5021Outer sheath, materialBare Cu litz wiresMaterial wire insulationFoarned PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twiet500 MΩ'kmCoupling resistance\$100 Ω*5 Ω (at 100 MHz)Coupling resistance\$200 Ω/kmVave impedance\$100 Ω*5 Ω (at 100 MHz)Cable capacityapprox 45 nF/km (14 Hz)Nominal voltage, cable\$100 V (Cio Hz, 1 min.)Text voltage Core/Core700 V (Si Hz, 1 min.)Current carrying capacity of cable\$200 A (according to DIN VDE 0891-11)Minimum bending radius, fixed installation\$x DMinimum bending radius, fixed installation\$2 mm	Wiring standards/regulations	Electrical requirements EN 50288-2-2		
Cable typeEthermet flexible CAT5, 2-pair [93E]Conductor structure2x2XAWG26/7, SF/UTPSignal runtime5.3 ns/mConductor structure signal line7x.0.16 mmAWG signal line26Conductor cross section2x 2x 0.14 mm²Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulator resistance2 500 MQ*kmCoup resistance2 000 QU/kmCouping resistance2 000 QU/kmCable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable700 V (Foak value, not for high-power applications)Test voltage Core/Core700 V (Go Hz, 1 min.)Test voltage Core/Core200 QU (xing Quert on thigh-power applications)Test voltage Core/Core700 V (So Hz, 1 min.)Current carrying capacity of cable8 x DMinimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation6 mmSmallest bending radius, fixed installation26 mm	Number of positions	4		
Conductor structure2x2xAWG20/7, SF/UTPSignal runtime5.3 ns/mConductor structure signal line7.x 0.16 mmAWG signal line26Conductor cross section2x 2x 0.14 mm²Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoarmed PEConductor material1.20 mmSingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance\$ 2000 00/kmCoupling resistance\$ 2000 00/kmCoupling resistance\$ 2000 00/kmCable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable\$ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (Sol Hz, 1 min.)Test voltage Core/Shield2.000 00 (SHz, 1 min.)Current carrying capacity of cable3 x DMinimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation8 x DSmallest bending radius, fixed installation26 mm	Shielded	yes		
Signal runtime5.3 ns/mConductor structure signal line7x 0.16 mmAWG signal line26Conductor cross section2x 2x 0.14 mm²Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoarned PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOveral twist500 MQ²kmCoupling resistance500 MQ²kmLoop resistance500 MQ²kmCoupling resistance500 MQ²kmCable capacityapprox.45 nF/km (at 1 kHz)Nominal voltage, cable5100 V (Sol Hz, 1 min.)Test voltage Core/Soriel700 V (Sol Hz, 1 min.)Test voltage Core/Soriel700 V (Sol Hz, 1 min.)Test voltage Core/Soriel600 Aug to V (Sol Hz, 1 min.)Current carrying capacity of cable4 x DMinimum bending radius, fixed installation4 x DMinimum bending radius, fixed installation6 mmSnallest bending radius, fixed installation62 mm	Cable type	Ethernet flexible CAT5, 2-pair [93E]		
Conductor structure signal line7x 0.16 mmAWG signal line26Conductor cross section2x 2x 0.14 mm³Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance≤ 100.00 mΩ/m (at 10 MHz)Coupling resistance≤ 2000 Ω/kmCoupling resistance≤ 100 V (Peak value, not for high-power applications)Test voltage Core/Core70 V(50 Hz, 1 min.)Test voltage Core/Shield2.000 Q/ (50 Hz, 1 min.)Current carrying capacity of cable2.000 (0.00 V (50 Hz, 1 min.)Minimu bending radius, fixed installation8 x DMinimu bending radius, fixed installation8 x DSmallest bending radius, fixed installation6 mmSmallest bending radius, fixed installation52 mm	Conductor structure	2x2xAWG26/7, SF/UTP		
AWG signal line26Conductor cross section2x 2x 0.14 mm²Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmOverall twistCoros to the pairOverall twist2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering500 MΩ'kmCoupling resistance≤ 100.00 mΩ/m (at 10 MHz)Coupling resistance≤ 290.00 J/kmWave impedance100 Ω ± 5 Ω (at 100 MHz)Cable copacity300 V (So Hz, 1 min.)Test voltage Core/Shield20.00 V (So Hz, 1 min.)Current carrying capacity of cable2.00 A (acording to DIN VDE 0891-1)Minimu bending radius, fixed installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, fixed installation52 mm	Signal runtime	5.3 ns/m		
Conductor cross section2x 2x 0.14 mm³Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with wo fillers to the coreOptical shield covering70 %Insulation resistance\$ 500 MQ*kmCoupling resistance2 000 Q/kmKave impedance100 Ω ±5 Ω (at 100 MHz)Colar core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield700 V (50 Hz, 1 min.)Current carrying capacity of cable\$ 100 Q 150 Hz, 1 min.)Current carrying radius, fixed installation8 x DMinimu bending radius, fixed installation8 x DSmallest bending radius, fixed installation62 mm	Conductor structure signal line	7x 0.16 mm		
Wire diameter incl. insulation0.98 mmExternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance≤ 500 MΩ/rkmCoupling resistance≤ 2000 Ω/kmCoupling resistance≤ 2000 Ω/kmCable capacityapprox.45 nF/km (at 1 kHz)Nominal voltage, cable5100 V (Peak value, not for high-power applications)Test voltage Core/Shield7000 V (50 Hz, 1 min.)Current carrying capacity of cable2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation62 mm	AWG signal line	26		
Eternal cable diameter6.40 mm ±0.2 mmOuter sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance≤ 500 MΩ'kmLoop resistance≤ 200.00 Ω/kmVare impedance100 Ω ± 5 Ω (at 100 MHz)Otale copic/Core70 % (So Hz, 1 min.)Test voltage Core/Core500 V (So Hz, 1 min.)Test voltage Core/Shield2.000 Q / (So Hz, 1 min.)Current carrying capacity of cable2.000 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation8 x DMinimum bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Conductor cross section	2x 2x 0.14 mm ²		
Outer sheath, materialPURExternal sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance\$100 00 mΩ/m (at 10 MHz)Loop resistance\$2000 Ω/kmVave impedance\$100 0 ± 5 Ω (at 100 MHz)Cable capacity\$100 0 ± 5 Ω (at 100 MHz)Nominal voltage, cable\$100 V (Peak value, not for high-power applications)Test voltage Core/Shield\$000 V (50 Hz, 1 min.)Current carrying capacity of cable\$000 N (So Hz, 1 min.)Current carrying capacity of cable\$200 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation\$x DMinimum bending radius, fixed installation\$x DSmallest bending radius, fixed installation\$2 mm	Wire diameter incl. insulation	0.98 mm		
External sheath, colorwater blue RAL 5021Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance\$ 500 MΩ*kmCoupling resistance\$ 200:00 Ω/kmLoop resistance\$ 200:00 Ω/kmVare impedance\$ 100 Ω ± 5 Ω (at 100 MHz)Catle capacity\$ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield\$ 200.00 Ω/kmMinimum bending radius, fixed installation\$ x DMinimum bending radius, fixed installation\$ x DSmallest bending radius, fixed installation\$ 20m	External cable diameter	6.40 mm ±0.2 mm		
Conductor materialBare Cu litz wiresMaterial wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance\$ 500 MΩ'kmCouping resistance\$ 100.00 mΩ/m (at 10 MHz)Loop resistance\$ 200.00 Ω/kmVare impedance100 Ω ± 5 Ω (at 100 MHz)Cable capacity\$ 100 Ω ± 5 Ω (at 100 MHz)Test voltage Core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield700.00 V (50 Hz, 1 min.)Current carrying capacity of cable\$ 200 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation\$ x DMinimum bending radius, fixed installation\$ 26 mmSmallest bending radius, fixed installation\$ 20 m	Outer sheath, material	PUR		
Material wire insulationFoamed PESingle wire, colorwhite/orange-orange, white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance\$ 500 MΩ*kmCoupling resistance\$ 100.00 mΩ/m (at 10 MHz)Loop resistance\$ 290.00 Ω/kmWave impedance100 Ω ± 5 Ω (at 100 MHz)Cable capacity\$ 100 V (Peak value, not for high-power applications)Test voltage Core/Shield700.V(50 Hz, 1 min.)Current carrying capacity of cable\$ 00.00 V (50 Hz, 1 min.)Minimum bending radius, fixed installation4 x DMinimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation52 mm	External sheath, color	water blue RAL 5021		
Single wire, colorwhite/orange. white/green-greenThickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance\$ 500 MΩ'kmCoupling resistance\$ 100.00 mΩ/m (at 10 MHz)Loop resistance\$ 290.00 Ω/kmWave impedance100 Ω ± 5 Ω (at 100 MHz)Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable700 V (50 Hz, 1 min.)Test voltage Core/Core700.00 V (50 Hz, 1 min.)Current carrying capacity of cable2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation6 mmSmallest bending radius, movable installation52 mm	Conductor material	Bare Cu litz wires		
Thickness, outer sheath1.20 mmTwisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance\$ 500 MΩ*kmCoupling resistance\$ 100.00 mΩ/m (at 10 MHz)Loop resistance\$ 290.00 Ω/kmWave impedance100 Ω ±5 Ω (at 100 MHz)Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable\$ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield200 A (according to DIN VDE 0891-1)Minimu bending radius, fixed installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Material wire insulation	Foamed PE		
Twisted pairs2 cores to the pairOverall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance\$ 500 MΩ*kmCoupling resistance\$ 100.00 mΩ/m (at 10 MHz)Loop resistance\$ 290.00 Ω/kmWave impedance100 Ω ± 5 Ω (at 100 MHz)Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable\$ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700.00 V (50 Hz, 1 min.)Test voltage Core/Shield2.000 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation8 x DSmallest bending radius, movable installation52 mm	Single wire, color	1.20 mm 2 cores to the pair		
Overall twistTwo pairs with two fillers to the coreOptical shield covering70 %Insulation resistance≥ 500 MΩ*kmCoupling resistance≤ 100.00 mΩ/m (at 10 MHz)Loop resistance≤ 290.00 Ω/kmWave impedance100 Ω ±5 Ω (at 100 MHz)Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable≤ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (50 Hz, 1 min.)Current carrying capacity of cable2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Thickness, outer sheath			
Optical shield covering70 %Insulation resistance≥ 500 MΩ*kmCoupling resistance≤ 100.00 mΩ/m (at 10 MHz)Loop resistance≤ 290.00 Ω/kmWave impedance100 Ω ±5 Ω (at 100 MHz)Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable≤ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (50 Hz, 1 min.)Current carrying capacity of cable2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation8 x DMinimum bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Twisted pairs			
Insulation resistance $\geq 500 \text{ M}\Omega^*\text{km}$ 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 capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable $\leq 100 V$ (Peak value, not for high-power applications)Test voltage Core/Core $700 V$ (50 Hz, 1 min.)Current carrying capacity of cable $2.00 A$ (according to DIN VDE 0891-1)Minimum bending radius, fixed installation $8 \times D$ Smallest bending radius, fixed installation 26 mm Smallest bending radius, movable installation 52 mm	Overall twist			
Coupling resistance≤ 100.00 mΩ/m (at 10 MHz)Loop resistance≤ 290.00 Ω/kmWave impedance100 Ω ± 5 Ω (at 100 MHz)Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable≤ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation4 x DMinimum bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Optical shield covering	70 %		
Loop resistance≤ 290.00 Ω/kmWave impedance100 Ω ±5 Ω (at 100 MHz)Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable≤ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield2.00 A (according to DIN VDE 0891-1)Current carrying capacity of cable4 x DMinimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Insulation resistance	≥ 500 MΩ*km		
Wave impedance100 Ω ±5 Ω (at 100 MHz)Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable≤ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield700.00 V (50 Hz, 1 min.)Current carrying capacity of cable2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Coupling resistance	≤ 100.00 mΩ/m (at 10 MHz)		
Cable capacityapprox. 45 nF/km (at 1 kHz)Nominal voltage, cable≤ 100 V (Peak value, not for high-power applications)Test voltage Core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield700.00 V (50 Hz, 1 min.)Current carrying capacity of cable2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation4 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Loop resistance	≤ 290.00 Ω/km		
Nominal voltage, cable ≤ 100 V (Peak value, not for high-power applications) Test voltage Core/Core 700 V (50 Hz, 1 min.) Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Current carrying capacity of cable 2.00 A (according to DIN VDE 0891-1) Minimum bending radius, fixed installation 4 x D Minimum bending radius, fixed installation 8 x D Smallest bending radius, movable installation 26 mm Smallest bending radius, movable installation 52 mm	Wave impedance	100 Ω ±5 Ω (at 100 MHz)		
Test voltage Core/Core700 V (50 Hz, 1 min.)Test voltage Core/Shield700.00 V (50 Hz, 1 min.)Current carrying capacity of cable2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation4 x DMinimum bending radius, fixed installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Cable capacity	approx. 45 nF/km (at 1 kHz)		
Test voltage Core/Shield 700.00 V (50 Hz, 1 min.) Current carrying capacity of cable 2.00 A (according to DIN VDE 0891-1) 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	Nominal voltage, cable	≤ 100 V (Peak value, not for high-power applications)		
Current carrying capacity of cable2.00 A (according to DIN VDE 0891-1)Minimum bending radius, fixed installation4 x DMinimum bending radius, flexible installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Test voltage Core/Core	700 V (50 Hz, 1 min.)		
Minimum bending radius, fixed installation4 x DMinimum bending radius, flexible installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Test voltage Core/Shield 700.00 V (50 Hz, 1 min.)			
Minimum bending radius, flexible installation8 x DSmallest bending radius, fixed installation26 mmSmallest bending radius, movable installation52 mm	Current carrying capacity of cable	2.00 A (according to DIN VDE 0891-1)		
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 ≤ 80 N	Smallest bending radius, movable installation	52 mm		
	Tensile strength	≤ 80 N		



https://www.phoenixcontact.com/us/products/1408730

Near end crosstalk attenuation (NEXT)	65.3 dB (with 1 MHz)	
	56.3 dB (at 4 MHz)	
	50.3 dB (at 10 MHz)	
	47.2 dB (at 16 MHz)	
	45.8 dB (at 20 MHz)	
	42.9 dB (at 31.25 MHz)	
	38.4 dB (at 62.5 MHz)	
	35.3 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	
	in acc. to UL VW1	
	in accordance with UN ECE-R 118.03	
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





https://www.phoenixcontact.com/us/products/1408730

Degree of protection	IP65
	IP67
	IP65/IP67
Ambient temperature (operation)	-25 °C 85 °C (M12 connector)

Standards and regulations

M12				
	Standard designation	M12 connector		
	Standards/specifications	IEC 61076-2-101		

PHŒNIX CONTACT

1408730

https://www.phoenixcontact.com/us/products/1408730



Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded



Pin assignment M12 socket, 4-pos., D-coded, female side



1408730

https://www.phoenixcontact.com/us/products/1408730





1408730

https://www.phoenixcontact.com/us/products/1408730

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1408730

Approval ID: FILE E 335024					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		30 V	4 A	-	-



EAC-RoHS Approval ID: RU D-DE.HB35.B.00387 1408730

https://www.phoenixcontact.com/us/products/1408730



Classifications

ECLASS

ECLASS-12.0 27060307 ECLASS-13.0 27060307	ECLASS-11.0	27060307
ECLASS-13.0 27060307	ECLASS-12.0	27060307
	ECLASS-13.0	27060307

ETIM

	ETIM 9.0	EC001855
UNSPSC		
	UNSPSC 21.0	26121600



https://www.phoenixcontact.com/us/products/1408730

Environmental product compliance

EU RoHS

201000	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
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.)	Lead(CAS: 7439-92-1)
SCIP	325688a2-1d0d-4315-a71f-4cc7ec30eff1

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com PHŒNIX CONTACT