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Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 1 Gbps. Possible to connect two RJ45 plugs.

Why buy this product

- ✓ No power supply required
- ☑ Dielectric strength of up to 4 kV
- 🗹 Protection against aggressive environmental influences, particularly harsh industrial environments, thanks to coated PCB
- $^{f ilde{y}}$ Approval for railway applications (rolling stock) according to EN 50155 and EN 50121
- Electrical isolation of data cables and cable shielding
- Extended temperature range of -25°C to +85°C
- Mounting on EN DIN rails
- Continuous insulation voltage of 250 VRMS



Key Commercial Data

| Packing unit | 1 STK |
|--------------------------------------|-----------------|
| GTIN | 4 046356 574563 |
| GTIN | 4046356574563 |
| Weight per Piece (excluding packing) | 120.000 g |
| Custom tariff number | 85437090 |
| Country of origin | Germany |

Technical data

Dimensions

| Width | 22.5 mm |
|-------|---------|



Technical data

Dimensions

| Height | 99 mm |
|--------|-------|
| Depth | 92 mm |

Ambient conditions

| Ambient temperature (operation) | -25 °C 75 °C | |
|--|--|--|
| Ambient temperature (storage/transport) | -25 °C 85 °C | |
| Permissible humidity (operation) | 10 % 95 % (non-condensing) | |
| Permissible humidity (storage/transport) | 5 % 95 % (non-condensing) | |
| Altitude | 5000 m (For restrictions see manufacturer's declaration) | |
| Degree of protection | IP20 | |

General

| Electrical isolation | Ethernet // Ethernet |
|--|---|
| Test voltage data interface/data interface | 4 kV AC (50 Hz, 1 min.) |
| Insulation voltage input/output | 250 V _{rms} |
| Standards/regulations | EN 50121 and EN 50155 (for railway applications) |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Net weight | 122.3 g |
| Housing material | PA 6.6-FR |
| Color green | green |
| MTBF | 25932 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day)) |
| | 8640 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day)) |
| UL, USA/Canada | 508 Listed |

Serial interface

| Interface 1 | Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u |
|---------------------------|---|
| Interface | Ethernet |
| No. of ports | 1 |
| Connection method | RJ45 socket, shielded |
| Transmission length | \leq 100 m (Total length across both ports (dependent on data rate and cable used)) |
| Serial transmission speed | 10/100/1000 Mbps |
| Interface 2 | Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u |
| Interface | Ethernet |
| No. of ports | 1 |
| Connection method | RJ45 socket, shielded |
| Serial transmission speed | 10/100/1000 Mbps |



Technical data

Standards and Regulations

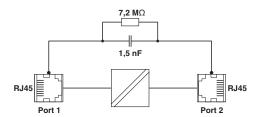
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
|-------------------------------|--|
| Type of test | Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 |
| Test result | 5g, 10150 Hz, 2.5 h, in XYZ direction |
| Type of test | Shock in acc. with EN 60068-2-27/IEC 60068-2-27 |
| Test result | 25g, 11 ms period, half-sine shock pulse |
| Standards/regulations | EN 61000-4-2 |
| Contact discharge | ± 6 kV (Test Level 3) |
| Standards/regulations | EN 61000-4-3 |
| Frequency range | 26 MHz 3 GHz (Test Level 3) |
| Standards/regulations | EN 61000-4-4 |
| Comments | Criterion B |
| Standards/regulations | EN 61000-4-5 |
| Signal | ± 1 kV (Data line, asymmetrical) |
| Standards/regulations | EN 61000-6-4 |
| | EN 61000-4-6 |
| Frequency range | 0.15 MHz 80 MHz |
| Standards/regulations | EN 50121 and EN 50155 (for railway applications) |
| UL, USA/Canada | 508 Listed |
| Noxious gas test | ISA-S71.04-1985 G3 Harsh Group A |

Environmental Product Compliance

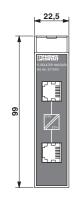
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e | |
|------------|---|--|
| | No hazardous substances above threshold values | |

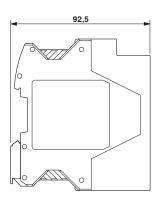
Drawings

Block diagram



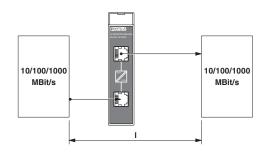
Dimensional drawing







Schematic diagram



Classifications

eCl@ss

| eCl@ss 4.0 | 27250591 |
|------------|----------|
| | |
| eCl@ss 4.1 | 27230207 |
| eCl@ss 5.0 | 27230207 |
| eCl@ss 5.1 | 27061803 |
| eCl@ss 6.0 | 27061803 |
| eCl@ss 7.0 | 27061803 |
| eCl@ss 8.0 | 27249290 |
| eCl@ss 9.0 | 27240692 |

ETIM

| ETIM 3.0 | EC000313 |
|----------|----------|
| ETIM 4.0 | EC000467 |
| ETIM 5.0 | EC002584 |
| ETIM 6.0 | EC002584 |

UNSPSC

| UNSPSC 6.01 | 26121607 |
|---------------|----------|
| UNSPSC 7.0901 | 26121607 |
| UNSPSC 11 | 26121607 |
| UNSPSC 12.01 | 26121607 |
| UNSPSC 13.2 | 39121552 |

Approvals

Approvals

Approvals

UL Listed / cUL Listed / DNV / EAC / cULus Listed



| Approvals | | | |
|------------------|--------------------------|---|--------------------------|
| Ex Approvals | | | |
| Approval details | | | |
| UL Listed | U _L LISTED | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| cUL Listed | C UL | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| DNV | ŮŮ Vna | http://exchange.dnv.com/tari/ | A-13414 |
| EAC | EAC | | RU *- DE.A*30.B.01735 |
| cULus Listed | c UL) US | | |

Accessories

Accessories

Passive isolators

Network isolator - FL ISOLATOR 100-RJ/SC - 2313928



Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Connection using RJ45 and COMBICON plug-in screw terminal block.



Accessories

Network isolator - FL ISOLATOR 100-RJ/RJ - 2313931



Passive network isolator for electrical isolation in Ethernet networks. This protects Ethernet devices from potential differences of up to 4 kV. Can be used for transmission speeds of up to 100 Mbps. Possible to connect two RJ45 plugs.

Patch cable

Patch cable - FL CAT5 PATCH 0,3 - 2832250



Patch cable, CAT5, assembled, 0.3 m

Patch cable - FL CAT5 PATCH 0,5 - 2832263



Patch cable, CAT5, assembled, 0.5 m

Patch cable - FL CAT5 PATCH 1,0 - 2832276



Patch cable, CAT5, assembled, 1 m

Patch cable - FL CAT5 PATCH 1,5 - 2832221



Patch cable, CAT5, assembled, 1.5 m



Accessories

Patch cable - FL CAT5 PATCH 2,0 - 2832289



Patch cable, CAT5, assembled, 2 m

Patch cable - FL CAT5 PATCH 3,0 - 2832292



Patch cable, CAT5, assembled, 3 m

Patch cable - FL CAT6 PATCH 0,3 - 2891181



Patch cable, CAT6, pre-assembled, 0.3 m

Patch cable - FL CAT6 PATCH 0,5 - 2891288



Patch cable, CAT6, pre-assembled, 0.5 m

Patch cable - FL CAT6 PATCH 1,0 - 2891385



Patch cable, CAT6, pre-assembled, 1.0 m



Accessories

Patch cable - FL CAT6 PATCH 1,5 - 2891482



Patch cable, CAT6, pre-assembled, 1.5 m

Patch cable - FL CAT6 PATCH 2,0 - 2891589



Patch cable, CAT6, pre-assembled, 2.0 m

Patch cable - FL CAT6 PATCH 3,0 - 2891686



Patch cable, CAT6, pre-assembled, 3.0 m

Patch panel

Patch panels - FL CAT5 TERMINAL BOX - 2744610



Patch panel, one RJ45 socket to 4 screw connection terminal blocks (assignment 1, 2, 3, 6), CAT5e, 10/100 Mbps, DIN rail mounting, IP20, shield contacting on DIN rail

Patch panels - FL-PP-RJ45-SCC - 2901642



Patch panel, one RJ45 socket to 8 spring-cage connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail mounting, IP20, option of shield contacting on DIN rail via jumpers



Accessories

Patch panels - FL-PP-RJ45-SC - 2901643



Patch panel, one RJ45 socket to 8 screw connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail mounting, IP20, option of shield contacting on DIN rail via jumpers

Patch panels - FL-PP-RJ45-LSA - 2901645



Patch panel, one RJ45 socket to 8 IDC connection terminal blocks (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail mounting, IP20, option of shield contacting on DIN rail via jumpers

Patch panels - FL-PP-RJ45/RJ45 - 2901646



Patch panel, two RJ45 sockets (1:1 assignment), CAT5e, 10/100/1000 Mbps, DIN rail mounting, IP20, option of shield contacting on DIN rail via jumpers

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