

Network isolator - FL ISOLATOR 1000-RJ/RJ - 2313915

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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.

Product Features

- No power supply required
- Dielectric strength of up to 4 kV
- Protection against aggressive environmental influences, particularly harsh industrial environments, thanks to coated PCB
- 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
- Transmission speed of up to 1000 Mbps
- Continuous insulation voltage of 250 VRMS



Key commercial data

package_quantity	1
GTIN	4046356574563

Technical data

Dimensions

Width	22.5 mm
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 % (no condensation)
Permissible humidity (storage/transport)	5 % ... 95 % (no condensation)
Altitude	5000 m (For restrictions see manufacturer's declaration)
Degree of protection	IP20

Serial interface

Interface 1	Ethernet interface, 10/100/1000Base-T(X) according to IEEE 802.3u
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Technical data

Serial interface

Interface	Ethernet
Connection method	RJ45 socket, shielded
Transmission length	≤ 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
Connection method	RJ45 socket, shielded
Serial transmission speed	10/100/1000 Mbps

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 2004/108/EC
Net weight	89 g
Housing material	PA 6.6-FR
Color	green
MTBF	25932 Years (Telcordia standard, 25°C temperature, 21% operating cycle (5 days a week, 8 hours a day))
MTBF	8640 Years (Telcordia standard, 40°C temperature, 34.25% operating cycle (5 days a week, 12 hours a day))
UL, USA / Canada	508 listed

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	27061803

ETIM

ETIM 3.0	EC000313
ETIM 4.0	EC000467
ETIM 5.0	EC000467

UNSPSC

UNSPSC 6.01	26121607
UNSPSC 7.0901	26121607

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classifications

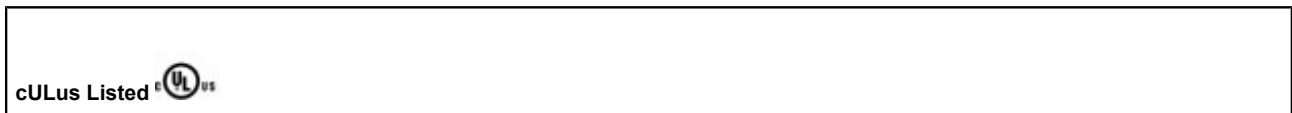
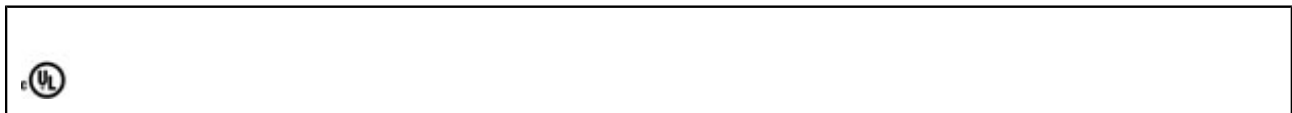
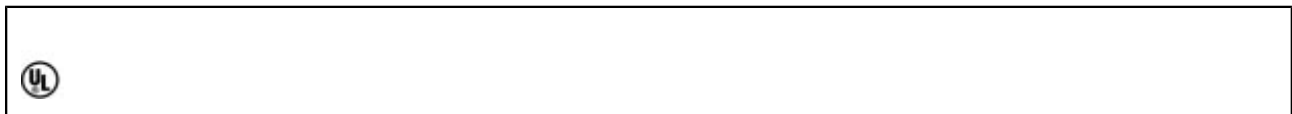
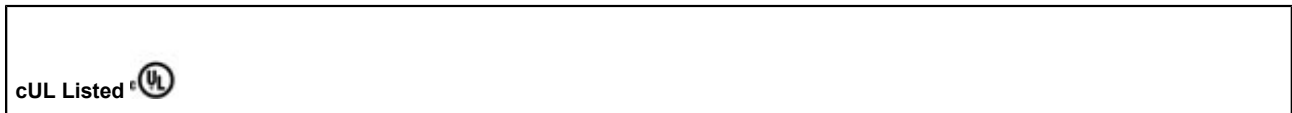
UNSPSC

UNSPSC 11	26121607
UNSPSC 12.01	26121607
UNSPSC 13.2	26121607

approvals

UL Listed / cUL Listed / UL Listed / cUL Listed / cULus Listed /

Approval details



accessories

Patch panel

FL CAT5 TERMINAL BOX - 2744610



Network isolator - FL ISOLATOR 1000-RJ/RJ - 2313915

accessories

FL-PP-RJ45-SCC - 2901642



FL-PP-RJ45-SC - 2901643



FL-PP-RJ45-LSA - 2901645



FL-PP-RJ45/RJ45 - 2901646



Passive isolators

FL ISOLATOR 100-RJ/SC - 2313928



Network isolator - FL ISOLATOR 1000-RJ/RJ - 2313915

accessories

FL ISOLATOR 100-RJ/RJ - 2313931



Patch cable

FL CAT5 PATCH 0,3 - 2832250



FL CAT5 PATCH 0,5 - 2832263



FL CAT5 PATCH 1,0 - 2832276



FL CAT5 PATCH 1,5 - 2832221



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accessories

FL CAT5 PATCH 2,0 - 2832289



FL CAT5 PATCH 3,0 - 2832292



FL CAT6 PATCH 0,3 - 2891181



FL CAT6 PATCH 0,5 - 2891288



FL CAT6 PATCH 1,0 - 2891385



FL CAT6 PATCH 1,5 - 2891482



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accessories

FL CAT6 PATCH 2,0 - 2891589

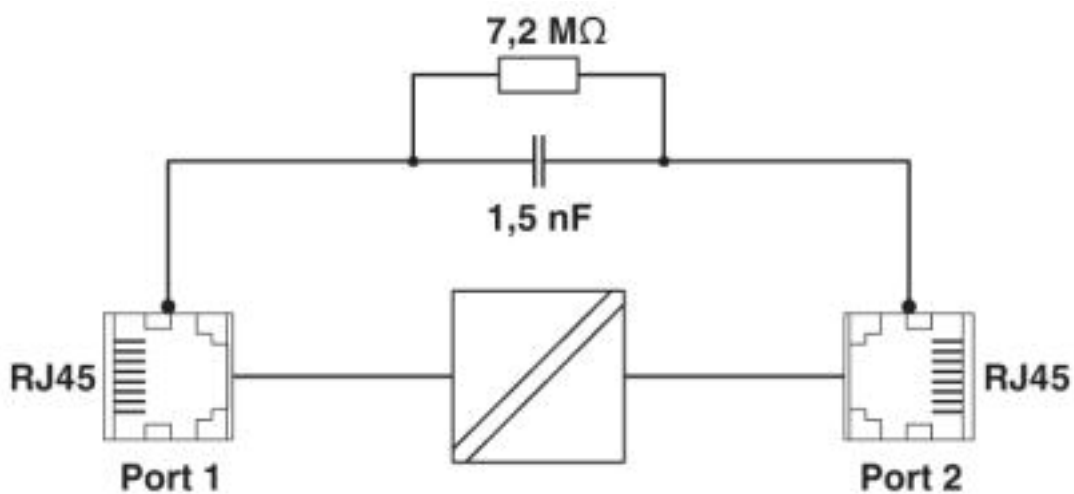


FL CAT6 PATCH 3,0 - 2891686



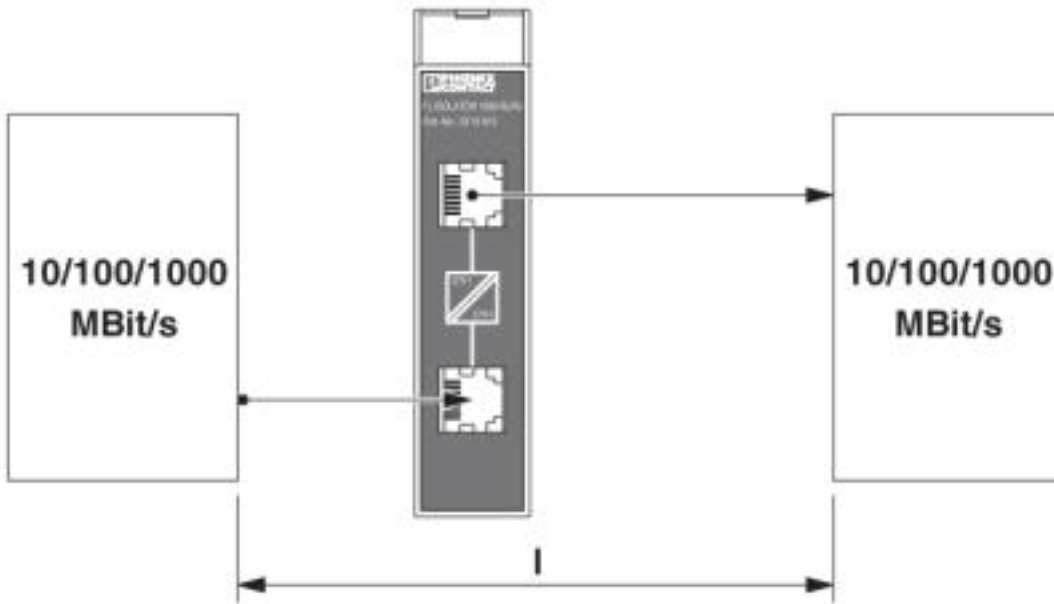
Drawings

Block diagram



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Schematic diagram



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