

Switch - FL SWITCH GHS 12G/8 - 2989200

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Ethernet Gigabit Modular Switch with eight 10/100/1000 Mbps RJ45 ports and four 1000 Mbps SFP ports, can be extended by up to 28 ports



Gigabit Modular Switch with 12 integrated Gigabit ports, modules can be added to extend to up to 28 Ethernet ports

Product description

The Gigabit Modular Switch is a high-performance managed switch, which covers the port requirements of industrial applications in a modular and flexible way. It also supports all popular Gigabit and Fast Ethernet transmission standards, IT standard protocols, and the PROFINET and Ethernet/IP automation protocols.

For use in the production backbone, the FL SWITCH GHS 12G/8 is the first switch with 12 integrated Gigabit ports and which also allows interface modules for up to 16 more 100 Mbps ports to be fitted.

Product Features

- ✓ Connection of connection media that can be assembled in the field, such as POF, HCS, and GI HCS
- ✓ Quick and easy local configuration options with the new operator/display interface
- ✓ Security in the automation network according to IEEE 802.1X
- ✓ Connection of Gigabit fiberglass via FL SFP plug-in modules
- ✓ Optional Layer 3 functions (static routing) can be activated



Key commercial data

Packing unit	1 PCE
GTIN	 4 046356 435376
Custom tariff number	85176200
Country of origin	GERMANY

Switch - FL SWITCH GHS 12G/8 - 2989200

Technical data

Note:

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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Dimensions

Width	287 mm
Height	125 mm
Depth	115 mm

SFP interface

Interface	Ethernet (SFP)
No. of ports	4 (SFP ports)
Transmission speed	1000 MBit/s (full duplex)
Transmission physics	FO

Copper interface

Interface	Ethernet (RJ45)
No. of ports	8
Transmission speed	10/100/1000 MBit/s
Connection method	RJ45
Note on connection method	Auto negotiation and autocrossing
Transmission physics	Copper

Interface expansion

Interface	Ethernet
No. of ports	2 (Per interface module)
Connection method	via interface module
Note on connection method	Max. 4 interface modules (without extension)
Transmission speed	10/100 MBit/s (full duplex)
Transmission physics	Multimode fiberglass
Transmission physics	Single mode fiberglass
Transmission physics	POF-SCRJ
Transmission physics	GI-HCS fibers
Transmission physics	Copper
Transmission physics	PoE

Function

Basic functions	Store-and-forward switch, smart mode, port mirroring, multicast filtering, IGMP snooping, VLAN, Media Redundancy Protocol (MRP according to IEC 62439), Rapid Spanning Tree (RSTP), Fast Ring Detection (FRD), Large Tree Support, IEEE 802.1X security, port security, PROFINET IO device, GMRP, GVRP, SNTP, 2 digital inputs
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Function

Management	Integrated management agent, SNMP protocol (private MIB, MIB-2, RMON MIB, Bridge MIB), integrated Web server function, CLI, serial access
Supported browsers	Internet Explorer 5.5 or higher
Redundancy	Spanning Tree 802.1d, Rapid Spanning Tree 802.1w, Fast Ring Detection, Media Redundancy Protocol (MRP) as per IEC 62439
Status and diagnostic indicators	Large operator display (contains IP address and other parameters), 2 status LEDs per Ethernet port: LINK and selection of Status Activity, 100, full duplex, supply voltage U_{S1} and U_{S2} (redundant supply voltage), and FAIL

Network expansion parameters

Cascading depth	Network, linear, and star structure: any
Maximum conductor length ((twisted pair)	100 m

Supply voltage

Supply voltage	24 V DC
Residual ripple	3.6 V _{PP} (within the permitted voltage range)
Supply voltage range	18.5 V DC ... 30.2 V DC
Typical current consumption	800 mA (Up to 2.7 A, depends on the configuration)
Max. current consumption	2.7 A

Mechanical tests

Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Operation: 25 g, 11 ms duration, semi-sinusoidal shock impulse
Type of test	Shock in acc. with EN 60068-2-27/IEC 60068-2-27
Test result	Storage/Transport: 50 g, 11 ms duration, semi-sinusoidal shock impulse
Type of test	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6
Test result	Operation/Storage/Transport: 5 g, 150 Hz, Criterion 3
Type of test	Free fall in acc. with IEC 60068-2-32
Test result	1 m

Conformity with EMC directives

Test standard	IEC 61000-4-2 (ESD)
Test standard	IEC 61000-4-3 (immunity to radiated interference)
Test result	Criterion A, 10 V/m
Test standard	IEC 61000-4-4 (burst)
Test standard	IEC 61000-4-5 (surge)
Test result	Criterion B
Test standard	IEC 61000-4-6 (immunity to conducted interference)
Test standard	EN 55022 (emitted interference)
Test result	Class A

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Technical data

General

Mounting type	DIN rail
Type AX	Stand-alone
Weight	2700 g
Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 55 °C (no condensation)
Ambient temperature (storage/transport)	-20 °C ... 70 °C
Permissible humidity (operation)	10 % ... 95 % (no condensation)
Permissible humidity (storage/transport)	10 % ... 95 % (no condensation)
Air pressure (operation)	80 kPa ... 108 kPa (2000 above sea level)
Air pressure (storage/transport)	66 kPa ... 108 kPa (3500 m above sea level)

Classifications

ETIM

ETIM 3.0	EC000734
ETIM 4.0	EC000734
ETIM 5.0	EC000734

UNSPSC

UNSPSC 11	43172015
UNSPSC 12.01	43201410
UNSPSC 13.2	43201410
UNSPSC 6.01	43172015
UNSPSC 7.0901	43201404

eCl@ss

eCl@ss 4.0	24010504
eCl@ss 4.1	24010504
eCl@ss 5.0	19030117
eCl@ss 5.1	19030117
eCl@ss 6.0	19170106
eCl@ss 7.0	19170106

Approvals

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Approvals

Approvals


UL Listed / cUL Listed / UL Listed / cUL Listed / PROFInergy / PROFInergy / PROFINET / PROFINET / cULus Listed


Ex Approvals

Approvals submitted

Approval details

UL Listed 

cUL Listed 

UL Listed 


cUL Listed 

PROFInergy

PROFInergy

PROFINET

PROFINET

cULus Listed 

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

Accessories

Add-ons

Extension module - FL FXT - 2989307



Expansion, 8 Ethernet ports

Media module - FL IF 2TX VS-RJ-F - 2832344



Interface module for connecting twisted pair cable, RJ45, connection direction forward

Media module - FL IF 2TX VS-RJ-D - 2832357



Interface module for connecting twisted pair cable, RJ45, connection direction downward

Media module - FL IF 2FX SC-F - 2832412



Fiber optic interface module for connecting 100 Base-FX multi-mode glass fibers (1300 nm), SC, connection direction forward

Media module - FL IF 2FX SC-D - 2832425



Fiber optic interface module for connecting 100 Base-FX multi-mode glass fibers (1300 nm), SC, connection direction downward

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Accessories

Media module - FL IF 2FX SM SC-D - 2832205



FO interface module for connecting 100 Base-FX single-mode glass fibers (1300 nm), SC, connection direction downward

Media module - FL IF 2FX ST-D - 2884033



Fiber optic interface module for connecting 100 Base-FX multi-mode glass fibers (1300 nm), ST, connection direction downward

Media module - FL IF 2POF SCRJ-D - 2891084



Fiber optic interface module for connecting 100 Base-FX POF/HCS fibers (650 nm), SCRJ, connection direction downward

Media module - FL SFP SX - 2891754



The small form-factor plug-in module is a plug-in fiber optic interface with a data transmission speed of 1000 Mbps, which is used in Gigabit Ethernet. Fiberglass module with a wavelength of 850 nm.

Media module - FL SFP LX - 2891767



The small form-factor plug-in module is a plug-in fiber optic interface with a data transmission speed of 1000 Mbps, which is used in Gigabit Ethernet. Fiberglass module with a wavelength of 1300 nm (long).

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Accessories

Media module - FL SFP LH - 2989912



The small form-factor plug-in module is a plug-in fiber optic interface with a data transmission speed of 1000 Mbps, which is used in Gigabit Ethernet. Fiberglass module with a wavelength of 1550 nm (long haul).

Media module - FL IF 2PSE-F - 2832904



Interface module for connecting PoE twisted pair ports, RJ45, connection direction forward

Cable/conductor

FO patch cable - FL MM PATCH 1,0 LC-LC - 2989158



Assembled fiber optic cable, break-out cable, fiberglass multi-mode 50/125 μm , connector: LC/LC, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 2,0 LC-LC - 2989255



Assembled fiber optic cable, break-out cable, fiberglass multi-mode 50/125 μm , connector: LC/LC, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL MM PATCH 5,0 LC-LC - 2901799



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 μm , plug: LC / LC, protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

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Accessories

FO patch cable - FL MM PATCH 1,0 LC-SC - 2989161



Assembled fiber optic cable, break-out cable, fiberglass multi-mode 50/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 2,0 LC-SC - 2989268



Assembled fiber optic cable, break-out cable, fiberglass multi-mode 50/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL MM PATCH 2,0 LC-SC - 2989268



Assembled fiber optic cable, break-out cable, fiberglass multi-mode 50/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL MM PATCH 1,0 LC-ST - 2989174



Assembled fiber optic cable, break-out cable, fiberglass multi-mode 50/125 µm, connector: LC/B-FOC (ST), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 2,0 LC-ST - 2989271



Assembled fiber optic cable, break-out cable, fiberglass multi-mode 50/125 µm, connector: LC/B-FOC (ST), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

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Accessories

FO patch cable - FL MM PATCH 5,0 LC-ST - 2901801



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, plug: LC / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL MM PATCH 1,0 LC-SCRJ - 2901802



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, plug: LC / SCRJ, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 2,0 LC-SCRJ - 2901803



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, plug: LC / SCRJ, protection type: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL MM PATCH 5,0 LC-SCRJ - 2901804



Assembled FO cable, break out cable, fiberglass multi-mode 50/125 µm, plug: LC / SCRJ protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL MM PATCH 1,0 SC-SC - 2901805



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

FO patch cable - FL MM PATCH 1,0 SC-SC - 2901805



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 5,0 SC-SC - 2901808



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL MM PATCH 1,0 SC-ST - 2901809



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / B-FOC, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 2,0 SC-ST - 2901810



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL MM PATCH 5,0 SC-ST - 2901811



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

FO patch cable - FL MM PATCH 1,0 SC-SCRJ - 2901812



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 2,0 SC-SCRJ - 2901813



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / SCRJ, protection type: IP20, for installation in cable ducts or control cabinets, length: 2 m^

FO patch cable - FL MM PATCH 2,0 SC-SCRJ - 2901813



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: SC Duplex / SCRJ, protection type: IP20, for installation in cable ducts or control cabinets, length: 2 m^

FO patch cable - FL MM PATCH 1,0 ST-ST - 2901815



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: B-FOC (ST) / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 2,0 ST-ST - 2901816



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 µm, connector: B-FOC (ST) / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 2 m

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

FO patch cable - FL MM PATCH 5,0 ST-ST - 2901817



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 μm , connector: B-FOC (ST) / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL MM PATCH 1,0 ST-SCRJ - 2901820



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 μm , connector: SC Duplex / SCRJ, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL MM PATCH 2,0 ST-SCRJ - 2901821



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 μm , connector: B-FOC (ST) / SCRJ, protection type: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL MM PATCH 5,0 ST-SCRJ - 2901822



Assembled FO cable, break out cable, multi-mode fiberglass 50/125 μm , connector: B-FOC (ST) / SCRJ, protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL SM PATCH 1,0 LC-LC - 2989187



Assembled fiber optic cable, break-out cable, fiberglass single mode 9/125 μm , connector: LC/LC, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

FO patch cable - FL SM PATCH 2,0 LC-LC - 2989284



Assembled fiber optic cable, break-out cable, fiberglass single mode 9/125 µm, connector: LC/LC, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL SM PATCH 5,0 LC-LC - 2901826



Assembled FO cable, break out cable, single-mode fiberglass 9/125 µm, connector: LC / LC, protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL SM PATCH 1,0 LC-SC - 2989190



Assembled fiber optic cable, break-out cable, fiberglass single mode 9/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL SM PATCH 2,0 LC-SC - 2989297



Assembled fiber optic cable, break-out cable, fiberglass single mode 9/125 µm, connector: LC/SC duplex, degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL SM PATCH 5,0 LC-SC - 2901827



Assembled FO cable, break out cable, single-mode fiberglass 9/125 µm, connector: LC / SC Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

FO patch cable - FL SM PATCH 1,0 LC-ST - 2989242



Assembled fiber optic cable, break-out cable, fiberglass single mode 9/125 μm , connector: LC/B-FOC (ST), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL SM PATCH 2,0 LC-ST - 2989349



Assembled fiber optic cable, break-out cable, fiberglass single mode 9/125 μm , connector: LC/B-FOC (ST), degree of protection: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL SM PATCH 5,0 LC-ST - 2901828



Assembled FO cable, break out cable, single-mode fiberglass 9/125 μm , connector: LC / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL SM PATCH 1,0 SC-SC - 2901829



Assembled FO cable, break out cable, single-mode fiberglass 9/125 μm , connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL SM PATCH 2,0 SC-SC - 2901830



Assembled FO cable, break out cable, single-mode fiberglass 9/125 μm , connector: SC Duplex / SC-Duplex, protection type: IP20, for installation in cable ducts or control cabinets, length: 2 m

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

FO patch cable - FL SM PATCH 5,0 SC-SC - 2901831



Assembled FO cable, break out cable, single-mode fiberglass 9/125 µm, connector: SC Duplex / SC-Duplex protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL SM PATCH 1,0 SC-ST - 2901832



Assembled FO cable, break out cable, single-mode fiberglass 9/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL SM PATCH 2,0 SC-ST - 2901833



Assembled FO cable, break out cable, single-mode fiberglass 9/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 2 m

FO patch cable - FL SM PATCH 5,0 SC-ST - 2901834



Assembled FO cable, break out cable, single-mode fiberglass 9/125 µm, connector: SC Duplex / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO patch cable - FL SM PATCH 1,0 ST-ST - 2901836



Assembled FO cable, break out cable, single-mode fiberglass 9/125 µm, connector: B-FOC (ST) / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

FO patch cable - FL SM PATCH 1,0 ST-ST - 2901836



Assembled FO cable, break out cable, single-mode fiberglass 9/125 μm , connector: B-FOC (ST) / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 1 m

FO patch cable - FL SM PATCH 5,0 ST-ST - 2901838



Assembled FO cable, break out cable, single-mode fiberglass 9/125 μm , connector: B-FOC (ST) / B-FOC (ST), protection type: IP20, for installation in cable ducts or control cabinets, length: 5 m

FO cable - PSM-LWL-GDM-RUGGED- 50/125 - 2799322



Fiberglass cable, duplex 50/125 μm , by the meter, without connector, for indoor installation

FO cable - PSM-LWL-GDO- 50/125 - 2799432



Fiberglass cable, duplex 50/125 μm , by the meter, without connector, for outdoor installation

FO cable - PSM-LWL/GDM-RUGGED - 2744911



Fiberglass cable, duplex 50/125 μm , by the meter, with connector, for indoor installation

Switch - FL SWITCH GHS 12G/8 - 2989200

Accessories

FO cable - PSM-LWL/GDO - 2744924



Fiberglass cable, duplex 50/125 µm, by the meter, with connector, for outdoor installation

FO patch cable - FOC-GDM-RUGGED-1016/IP20/... - 2901558



rugged GOF installation cable (IP20 heads only) for inner areas with highly tear-proof aramid strain-relief elements. Individual elements consist of highly flexible FRNC material. The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.

FO patch cable - FOC-GDM-RUGGED-1016/... - 1402193



rugged GOF installation cable for inner areas with highly tear-proof aramid strain-relief elements. Individual elements consist of highly flexible FRNC material. The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.

FO patch cable - FOC-GDO-1017/IP20/... - 2901559



Highly rugged GOF round cable (IP20 heads only) for assembly and for outdoor installation with integrated moisture barrier as well as rodent-proof scrim. Individual elements made from highly flexible FRNC material. The wire is ozone and UV resistant with a very rugged polyethylene outer sheath.

FO patch cable - FOC-GDO-1017/... - 1402194



Highly rugged GOF round cable for assembly and for outdoor installation with integrated moisture barrier as well as rodent-proof scrim. Individual elements made from highly flexible FRNC material. The wire is ozone and UV resistant with a very rugged polyethylene outer sheath.

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Accessories

FO patch cable - FOC-PN-HCS-GI-1005/IP20/... - 2901554



PROFINET HCS-GI installation cable (IP20 heads only) for fixed installation in the inner area. Gradient index fiber. Individual elements made from highly flexible FRNC material. Halogen-free, ozone and UV resistant with a polyurethane (PUR) outer sheath.

FO patch cable - FOC-PN-HCS-GI-1005/... - 1402189



HCS-GI installation cable for assembly for fixed installation in the inner area, with gradient index fibers for the highest performance requirements, as well as individual elements made of highly flexible FRNC material. The cable is halogen-free, ozone and UV resistant and has a rugged polyurethane (PUR) outer sheath.

FO cable - FL FOC PN-C-HCS-GI-200/230 - 2313410



PROFINET HCS GI fiber cables, duplex 200/230 μm , increased bandwidth for Ethernet applications in particular. Robust PUR outer sheath. Heavy version suitable for drag chains and indoor installation, sold by the meter without plugs

FO cable - FL FOC PN-C-HCS-GI - 2313504



HCS GI cable for indoor installation, duplex, 200/230 μm , sold by the meter with connectors, particularly suitable for Ethernet applications due to the high bandwidth, rugged PUR outer cable sheath, 8 mm outside diameter, color: green

Memory

Program / configuration memory - FL SD FLASH/L3/MRM - 2700607



Parameterization memory, plug-in, with MRM and Layer 3 functionality

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Accessories

Program / configuration memory - FL SD FLASH/MRM - 2700270



Parameterization memory, plug-in, with MRM functionality

Memory - SD FLASH 256MB - 2988120



Program and configuration memory, plug-in, 256 MB
