

product type designation

product description

FO Trailing Cable GP

Glass fiber-optic cable, preferred length, preassembled

FO Trailing Cable GP 50/125, pre-assembled with 2x2 SC connectors, insertion aid, length 50 m.



product brand name

SIMATIC NET

Technical Product Detail Page

<https://l.siemens.com/1P6XV1873-6DN50>

suitability for use

Flexible cable for use in cable carriers for high mechanical loading, UL approval

version of the assembled FO cable

Preassembled with four SC connectors

cable designation

AT-W(ZN)Y(ZN)Y 2G 50/125 OM2++

wire length

50 m

optical data

attenuation factor per length

- at 850 nm / maximum
- at 1300 nm / maximum

2.7 dB/km
0.7 dB/km

bandwidth length product

- at 850 nm
- at 1300 nm

600 GHz-m
1200 GHz-m

mechanical data

number of fibers / per FOC core

1

number of FO cores / per FOC cable

2

version of the FO conductor fiber

Multi-mode gradient fiber 50/125 µm, OM 2

design of the FOC core

Hollow core, filled, diameter 1400 µm

design of the fiber-optic cable

segmentable

outer diameter

- of the optical fibers
- of the optical fiber sheath
- of the FOC core sheath

50 µm
125 µm
2.9 mm

symmetrical deviation / of the outer diameter of the FOC core sheath

0.1 mm

outer diameter / of the cable

10.5 mm

symmetrical deviation / of the outer diameter of the line

0.5 mm

material

- of the fiber-optic cable core
- of the optical fiber sheath
- of the FOC core sheath
- of the fiber-optic cable sheath
- of the strain relief

Quartz glass
Quartz glass
PVC
PVC
Aramid fibers

color

- of the FOC core sheath
- of cable sheath

orange/black
green

bending radius

| | |
|--|--|
| <ul style="list-style-type: none"> • with single bend / minimum permissible | 150 mm |
| <ul style="list-style-type: none"> • with multiple bends / minimum permissible | 200 mm |
| number of bending cycles | 3500000 |
| tensile load | |
| <ul style="list-style-type: none"> • during installation / short-term | 2000 N |
| <ul style="list-style-type: none"> • during operation / maximum | 800 N |
| short-term shear force per length | 700 N/cm |
| continuous shear force per length | 400 N/cm |
| weight per length | 90 kg/km |
| ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -25 ... +80 °C |
| <ul style="list-style-type: none"> • during storage | -25 ... +80 °C |
| <ul style="list-style-type: none"> • during transport | -25 ... +80 °C |
| <ul style="list-style-type: none"> • during installation | -5 ... +50 °C |
| fire behavior | flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A) |
| chemical resistance | |
| <ul style="list-style-type: none"> • to mineral oil | conditional resistance |
| <ul style="list-style-type: none"> • to grease | conditional resistance |
| radiological resistance / to UV radiation | resistant |
| protection class IP | IP20 |
| product features, product functions, product components / general | |
| product feature | |
| <ul style="list-style-type: none"> • halogen-free | No |
| <ul style="list-style-type: none"> • silicon-free | Yes |
| product component / rodent protection | No |
| wire length | |
| <ul style="list-style-type: none"> • for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum | 5000 m |
| <ul style="list-style-type: none"> • for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum | 750 m |
| <ul style="list-style-type: none"> • for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum | 2000 m |
| <ul style="list-style-type: none"> • for glass FOC / with PROFIBUS / maximum | 3000 m |
| standards, specifications, approvals | |
| certificate of suitability | |
| <ul style="list-style-type: none"> • UL approval | Yes; c(UL)us OFN FT4 |
| <ul style="list-style-type: none"> • RoHS conformity | Yes |
| further information / internet links | |
| internet link | |
| <ul style="list-style-type: none"> • to website: Selection guide for cables and connectors | https://support.industry.siemens.com/cs/ww/en/view/109766358 |
| <ul style="list-style-type: none"> • to web page: selection aid TIA Selection Tool | https://www.siemens.com/tstcloud |
| <ul style="list-style-type: none"> • to website: Industrial communication | https://www.siemens.com/simatic-net |
| <ul style="list-style-type: none"> • to web page: SiePortal | https://sieportal.siemens.com/ |
| <ul style="list-style-type: none"> • to website: Image database | https://www.automation.siemens.com/bilddb |
| <ul style="list-style-type: none"> • to website: CAX-Download-Manager | https://www.siemens.com/cax |
| <ul style="list-style-type: none"> • to website: Industry Online Support | https://support.industry.siemens.com |
| security information / header | |
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Approvals / Certificates

General Product Approval



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

General Product Approval

other

Industrial Communication



[Confirmation](#)



Profibus

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