

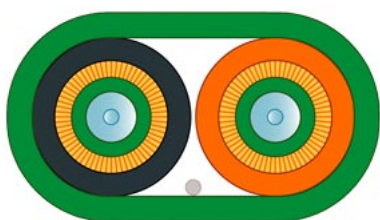
product type designation

product description

FO Standard Cable GP

Glass fiber-optic cable, preferred length, preassembled

FO Standard Cable 50/125, pre-assembled with 2x2 BFOC connectors, insertion aid, length 80 m.



suitability for use

Cable for installation indoors and outdoors, UL approval

version of the assembled FO cable

Assembled with four BFOC connectors

cable designation

AT-W(ZN)YY 2x1 G 50/125 OM2++

wire length

80 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

width / of cable sheath

7.4 mm

thickness / of cable sheath

4.5 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

- with single bend / minimum permissible
- with multiple bends / minimum permissible

45 mm

65 mm

tensile load

during installation / short-term	1200 N
during operation / maximum	500 N
short-term shear force per length	600 N/cm
continuous shear force per length	400 N/cm
weight per length	40 kg/km
ambient conditions	
ambient temperature	
during operation	-25 ... +80 °C
during storage	-25 ... +80 °C
during transport	-25 ... +80 °C
during installation	-5 ... +50 °C
fire behavior	flame-resistant acc. to IEC 60332-1-2 and IEC 60332-3-22 (Cat. A)
chemical resistance	
to mineral oil	conditional resistance
to grease	conditional resistance
radiological resistance / to UV radiation	resistant
protection class IP	IP20
product features, product functions, product components / general	
product feature	
halogen-free	No
silicon-free	Yes
product component / rodent protection	No
wire length	
for glass FOC / for 100BaseFX / for Industrial Ethernet / maximum	5000 m
for glass FOC / for 1000BaseSX / for Industrial Ethernet / maximum	750 m
for glass FOC / for 1000BaseLX / for Industrial Ethernet / maximum	2000 m
for glass FOC / with PROFIBUS / maximum	3000 m
standards, specifications, approvals	
certificate of suitability	
UL approval	Yes; UL approval: cULus OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 FT4 (CSA Standard C22.2 No. 232)
RoHS conformity	Yes
reference code	
according to IEC 81346-2	WH
according to IEC 81346-2:2019	WHA
further information / internet links	
internet link	
to web page: selection aid TIA Selection Tool	http://www.siemens.com/tia-selection-tool
to website: Industrial communication	http://www.siemens.com/simatic-net
to website: Industry Mall	https://mall.industry.siemens.com
to website: Information and Download Center	http://www.siemens.com/industry/infocenter
to website: Selection guide for cables and connectors	https://sie.ag/2QdlxcP
to website: Image database	http://automation.siemens.com/bilddb
to website: CAX-Download-Manager	http://www.siemens.com/cax
to website: Industry Online Support	https://support.industry.siemens.com
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