

Product-type designation

FO Trailing Cable GP



SIMATIC NET FO TRAILING CABLE, GP (50/125), UL APPROVED, TRAILING CABLE, SPLITTABLE, W/O CONNECT., SOLD BY THE METER MAX. LENGTH: 1000 M MIN. ORDER LENGTH: 20 M

Product description

Glass fiber-optic cable, sold by the meter, unassembled

Cable designation

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

Optical data

Damping ratio 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 FOC cores / per FOC cable

2

Version of the FO conductor fiber

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

Design of the fiber-optic cable

Segmentable

Outer diameter

- of 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 FOC core sheath	PVC
• of the fiber-optic cable sheath	PVC
Color	
• of the cable sheath	green
Bending radius	
• with single bend / minimum permissible	150 mm
• with multiple bends / minimum permissible	200 mm
Number of bending cycles	3500000
Traction stress / maximum	800 N
Short-term shear force per length	700 N/cm
Continuous lateral force per length	400 N/cm
Weight per length	90 kg/km

Permitted ambient conditions

Ambient temperature	
• during operating	-25 ... +80 °C
• during storage	-25 ... +80 °C
• during transport	-25 ... +80 °C
• during installation	-5 ... +50 °C
Chemical resistance	
• to mineral oil	Conditional resistance
• to grease	Conditional resistance
• to water	Conditional resistance

Product properties, functions, components / general

Product feature	
• halogen-free	No
• silicon-free	Yes
Product component / Rodent protection	No
Cable length	
• for glass FOC	
• for 100BaseFX / for Industrial Ethernet / maximum	5000 m
• for 1000BaseSX / for Industrial Ethernet / maximum	750 m
• for 1000BaseLX / for Industrial Ethernet / maximum	2000 m
• for glass FOC / for PROFIBUS / maximum	3000 m

Standards, specifications, approvals

Verification of suitability	UL approval: OFN (NEC Article 770, UL 1651) / CSA approval: OFN 90 °C, FT1, FT4 (CSA standard C22.2 No. 232-M1988)
• RoHS conformity	Yes

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