

Product-type designation

FO FRNC Cable GP



SIMATIC NET FO FRNC CABLE (50/125),CABLE FREE OF HALOGEN,
SPLITTABLE,
FOR FIXED INSTALLATION,MAX. LENGTH 1000 M MAX.
ORDER QUANTITY 20 M SOLD BY THE METER,

Product description

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

Cable designation

AT-W(ZN)HH 2G 50/125 UV

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

9.2 mm

Symmetrical deviation / of the outer diameter of the line	0.3 mm
Material	
• of the FOC core sheath	FRNC
• of the fiber-optic cable sheath	FRNC
Color	
• of the cable sheath	green
Bending radius	
• with single bend / minimum permissible	90 mm
• with multiple bends / minimum permissible	135 mm
Traction stress / maximum	500 N
Short-term shear force per length	500 N/cm
Weight per length	85 kg/km
Permitted ambient conditions	
Ambient temperature	
• during operating	-40 ... +85 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
• during installation	-5 ... +50 °C
Chemical resistance	
• to grease	Conditional resistance
• to water	Conditional resistance
Product properties, functions, components / general	
Product feature	
• halogen-free	Yes
• 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	
• RoHS conformity	Yes
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