

Product-type designation

FO Ground Cable



SIMATIC NET FO GROUND CABLE,
(50/125), OUTDOOR CABLE W. PROT. AGAINST
RODENTS,
SPLITTABLE, W/O CONNECT.,
SOLD BY THE METER MIN. ORDER LENGTH: 20 M,
MAX. LENGTH: 2000 M

Product description

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

Cable designation

AT-WQ(ZN)Y(ZN)B2Y 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	PE
Color	
• of the cable sheath	Black
Bending radius	
• with single bend / minimum permissible	105 mm
• with multiple bends / minimum permissible	155 mm
Traction stress / maximum	800 N
Short-term shear force per length	500 N/cm
Continuous lateral force per length	300 N/cm
Weight per length	90 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 mineral oil	resistant
• to grease	resistant
• to water	resistant
Product properties, functions, components / general	
Product feature	
• halogen-free	No
• silicon-free	Yes
Product component / Rodent protection	Yes
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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