

PSM-LWL-GDO-50/125

Glass Fiber Optical Fiber Cable For Permanent Outdoor Installation

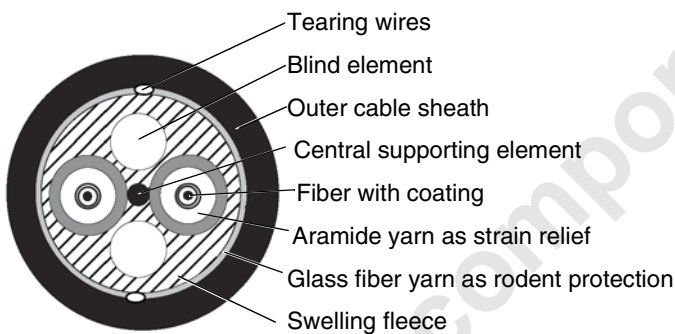


INTERFACE

Data Sheet

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Structure



Recommended connectors: available on request



Make sure you always use the latest documentation.
It can be downloaded at www.download.phoenixcontact.com.
A conversion table is available on the Internet at
www.download.phoenixcontact.com/general/7000_en_00.pdf.



This data sheet is valid for the following product:

Ordering Data

Description	Type	Order No.	Pcs./Pck.
Glass fiber optical fiber cable for permanent outdoor installation	PSM-LWL-GDO-50/125	2799432	1 (by the meter)

Technical Data

General Data			
Weight	90 kg/km		
Temperature range			
Installation	-5 °C ... +50 °C		
Operation	-25 °C ... +70 °C		
Storage	-30 °C ... +70 °C		
Fiber			
Type	50/125 µm graded index fiber		
Attenuation			
At 850 nm	≤ 2.5 dB/km		
At 1300 nm	≤ 0.7 dB/km		
Bandwidth length production			
At 850 nm	≥ 600 MHz/km		
At 1300 nm	≥ 1200 MHz/km		
Numerical aperture	0.20		
Single Element			
Type	2 full wires for direct connection of fiber optic connectors		
Material	Copolymer (FRNC), flame-retardant, halogen-free		
Color	Red/green		
Conductor diameter	2.9 mm ±0.1 mm (for 3 mm crimping)		
Strain relief elements	Non-metal, aramide yarn		
Bending radius			
Short period	30 mm, minimum		
Permanent	50 mm, minimum		
Twisting	2 single elements and 2 dummy elements twisted around an FRP core and wrapped with fleece		
Outer Cable Sheath			
Material	Polyethylene (PE)		
Color	Black		
Diameter	10.5 mm		
Rodent protection	Glass-fibre yarn		
Longitudinal water tightness	By swelling material		
Marking	PHOENIX CONTACT FOC L (Date MM/YY) AT-VQH(BN) 2G50/125 2.5B600+0,7F1200 LG and ID length specification in m		
Tearing wire	2 tearing wires under the outer cable sheath		
Mechanical Cable Properties According to EN 187000			
Bending radius	Procedure 513, Test Type 1	Short period	150 mm
		Permanent	200 mm
Tensile strength	Procedure 501	Short period	1500 N, minimum
		Permanent	500 N, minimum
Lateral pressure	Procedure 504	Short period	300 N/cm, minimum
		Permanent	500 N/cm, minimum
Impact strength	Procedure 505		1.5 Nm / 3 impacts, minimum
Longitudinal water tightness	Procedure 605	1 m cable, 1 m water column, 24 hours	
Material Properties			
Resistance to oil	Limited resistance to oil, benzene, acid, and lyes		
Chloroform test	Free of substances, which would hinder coating with paint or varnish according to central standard P-VW 3.10.7 57650 of VW, Audi, and Seat		
Free of halogen	According to IEC 60754-2 A1		
UV resistance	According to DIN EN ISO 4892-2, Procedure 1, Condition A		
Fire load	1.68 MJ/m (0.47 kWh/m)		
Combustion gases	No toxic or corrosive combustion gases		