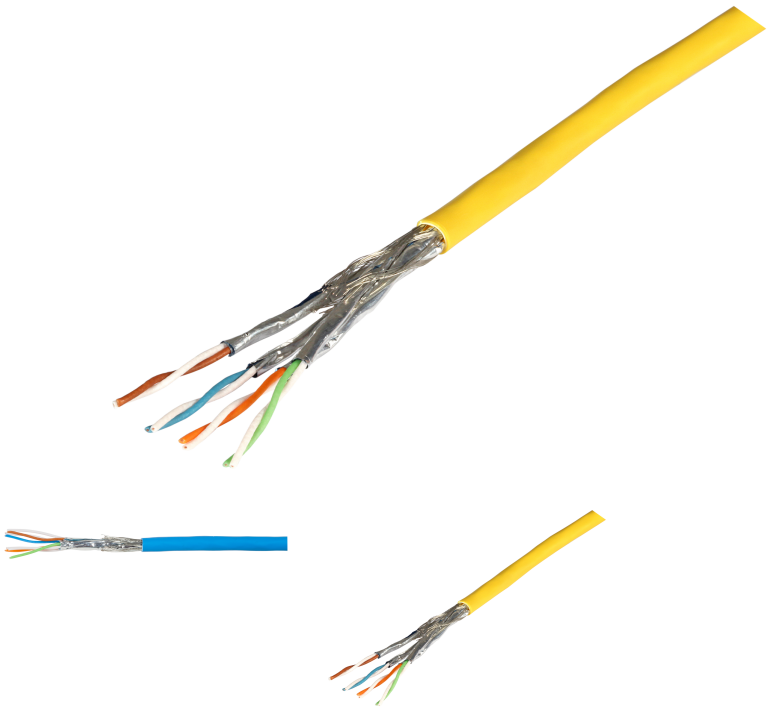
DATASHEET

MegaLine F6-90 S/F flex PIMF S/FTP, 900 MHz, H, grau



General data

The Cat.7 patch cable Leonie KERPEN in grey from the variation group Cat.7 600 MHz S/FTP Kerpen Megaline F-6-90 S/F flex 4P H is designed for high-performance network cabling. The S/FTP design with FRNC-B jacket supports stable data connections up to 600 MHz and is therefore suitable for modern installations with high bandwidth.

• 600 MHz Cat.7 bandwidth – Supports transmission standards from IEEE 802.3 10Mbit to 10Gbit and creates scope for high-performance networks.
• S/FTP design with braid shielding – Reduces interference and supports stable signal quality in demanding cabling.
• FRNC-B jacket in grey with Euroclass Dca – Is halogen-free according to EN 60754-1/2, complies with RoHS 2011/65/UE and complements the installation with a contemporary choice of materials.

The cable is designed as a simplex and uses 27/7 conductors with 8 wires. The dynamic bending radius of 50 mm facilitates installation. The braided shielding supports decoupling from external influences and the design is intended for PoE according to IEEE802.3af PoE, PoE+ according to IEEE802.3at and 4PPoE according to IEEE802.3bt. The version without reinforcement is aimed at laying in structured network environments.

Technical details
• Brand: Leonie KERPEN
• Category: Cat.7
• Transmission standards: IEEE 802.3 10Mbit to 10Gbit
• Max. frequency: 600 MHz
• Cable construction: S/FTP

This datasheet was created automatically on 01-11-2026 . Technical changes reserved.

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WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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- PoE: after IEEE802.3af PoE, after IEEE802.3at PoE+, after IEEE802.3bt 4PPoE
- AWG cross-section/number of wires: 27/7
- Number of cores: 8
- Type: simplex
- Sheath material: FRNC-B
- Sheath colour: grey
- Armour: without
- Bend radius (dynamic): 50 mm
- Directive/Regulation: RoHS 2011/65/UE
- Euroclass: Dca
- Halogen-free: according to EN 60754-1/2
- Shield over stranding: braid

Technical properties	
AWG-size	27/7
Armour	none
Bending radius (dynamic)	50 mm
Cable	IEC 61156-6
Cable silicone free	True
Cable structure	S/FTP
Cable type	Kerpen Megaline F6-90
Cabling standards	ISO/IEC 11801
Category	7
Characteristic impedance	100 ± 5 Ohm
Conductor category	Class 2 = stranded
Conductor material	Copper, tinned
Core identification	Colour
Core insulation	Cell-PE
Coupling attenuation	≥ 80 dB
Diameter conductor	0.45 mm
Directive/Regulation	RoHS 2011/65/UE
Euro class	Dca
Flame retardant	acc. to EN 60332-1
Halogen free	acc. to EN 60754-1/2
Harmonised Standard	EN 50575
Installation standard	EN 50174
Insulation resistance (500V)	≥ 5000 MOhm/km
Loop resistance	340 Ohm/km
Low smoke	acc. to EN 61034
Material outer sheath	FRNC-B

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Max. Freuqency	MHz MHz
NVP value	78 %
Nominal cross section conductor	0.14 mm²
Operating capacity	43 pF/km
Operating temperature, fix	-20 – 60 °C
Operating temperature, flexible	0 – 50 °C
Operating temperature, storage	-20 – 60 °C
PoE	acc. to IEEE802.3af PoE
Resistance unbalance	3 %
Screen over stranding	braiding
Screen over stranding element	Foil
Separation class acc. EN50174-2	D
Stranding element	Pairs
Test voltage DC, 1 min	1000 V
Transmission standards	IEEE 802.3 10Mbit bis 10Gbit
UV resistant	Nein

Available variants

ArtNr.	Bezeichnung	Colour outer sheath	Length	Number of cores	Type	Copper weight	Weight	Max. tractive force	Outer diameter approx.	Fire load
99728.1	MegaLine F6-90 S/F flex PIMF S/FTP, 900 MHz, H, grau	grey	1.0 m	8	simplex	17 kg/km	34 kg/km	40 N	5.7 mm	330 MJ/km
99728.1000	MegaLine F6-90 S/F flex PIMF S/FTP, 900 MHz, H, grau	grey	1000.0 m	8	simplex	17 kg/km	34 kg/km	40 N	5.7 mm	330 MJ/km

Note on Intended Use

This data sheet is intended solely to describe the technical characteristics of the product. It does not replace an assessment of the product's suitability for a specific application. The user is responsible for ensuring that the product is used in accordance with its technical specifications and applicable legal and regulatory requirements.

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