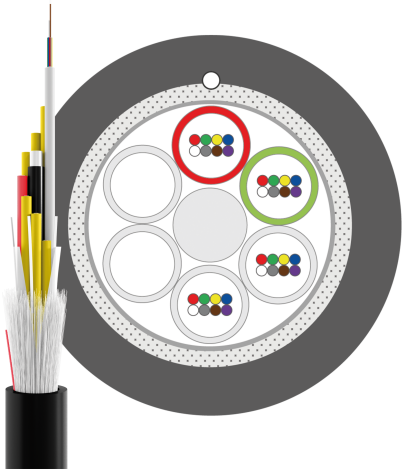
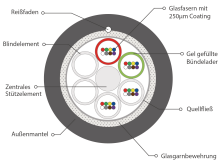
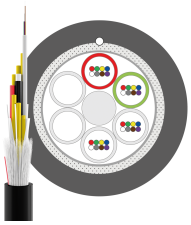
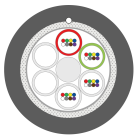
DATASHEET

INFRALAN® A-DQ(ZN)B2Y OS2 48E (4x12), Fca 5000N black 11.1mm G657A1









General data

The fiber optic cable, with its stranded, gel-filled loose tube construction and a tensile strength of 5000N, is ideal for structured outdoor cabling. The robust, dielectric design with glass yarn armoring makes the cable longitudinally watertight, UV-resistant, and rodent-proof. A durable PE sheath provides additional protection against mechanical stress.

It is suitable for direct burial, even using trenchless plowing methods, as well as in pipes and shafts. With a temperature range of -40°C to +70°C (operating), the cable is ideal for demanding environments.

This cable is versatile for LAN, MAN, and telecommunications backbones, as well as modern outdoor fiber optic access networks.

This datasheet was created automatically on 06-09-2026 . Technical changes reserved.

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WIR SORGEN FÜR VERBINDUNG
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Features:

• Robust outdoor cable for direct burial and ploughing

• Tensile strength up to 5000N – ideal for long distances

• Dielectric construction with E-glass yarns – metal-free and rodent-resistant

• Gel-filled, stranded loose tubes with up to 288 fibers

• Water-blocked and weather-resistant (-40°C to +70°C)

• Black, UV-resistant PE jacket (RAL 9005)

• Color code according to IEC 60794-2 / VDE 0888

• Suitable for backbone and access networks (LAN, MAN, FTTH, FTTB)

• DIN/VDE: A-DQ(ZN)B2Y

Technical properties	
Application	Outside
Armouring	True
Blow in	True
Cable metal free	True
Cable silicone free	True
Circuit integrity	False
Colour outer sheath	black
Crush resistance	3000 N/dm
Fiber Colours	white
Fiber marking	Colour
Fibre category	OS2 G657A1
Fibre type	Single mode 9/125
Flame retardant	False
Halogen free	acc. to EN 60754-1/2
Harmonised Standard	-
IL max. (dB/km) 1310nm	0.36 dB/km
IL max. (dB/km) 1550nm	0.23 dB/km
Longitudinal water blocking	True
Low smoke	False

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Material outer sheath	Polyethylene (PE)
Oil resistant	no
Radial water blocking	True
Resistant to chemicals	False
Scope of delivery	1x Cable, 1x Drum
Temperature Range (Installation)	-20 – 60 °C
Temperature Range (Operation)	-40 – 70 °C
Temperature Range (Storage)	-30 – 60 °C
Tube marking	Colour
Tube Ø	2.3 mm
Type of tube	Stranded loose tube
UV resistant	True
With rodent protection	True
With strain relief	True

Available variants

ArtNr.	Bezeichnung	CPR-Class	Cable Ø	Category	Number of fibres	Tensile force max.	Number of fibres per tube	Construct	Suitable for underground installation	Outer diameter approx.	Minimum bending radius (dynamic)	VDE-Name	Weight	Minimum bending radius (static)
A144S2F1	INFRALAN® A-DQ(ZN)B2Y OS2 144E (12x12), Fca 5000N black 15.7mm G657A1	Fca	15.7 mm	OS2	144	5000 N	12	(12x12)	True	15.7 mm	20xOD mm	A-DQ(ZN)B2Y	195 kg/km	10xOD mm
A48S2F1	INFRALAN® A-DQ(ZN)B2Y OS2 48E (4x12), Fca 5000N black 11.1mm G657A1	Fca	11.1 mm	OS2	48	5000 N	12	(4x12)	True	11.1 mm	20xOD mm	A-DQ(ZN)B2Y	98 kg/km	10xOD mm
A96S2F1	INFRALAN® A-DQ(ZN)B2Y OS2 96E (8x12), Fca 5000N black 12.7mm G657A1	Fca	12.7 mm	OS2	96	5000 N	12	(8x12)	True	12.7 mm	20xOD mm	A-DQ(ZN)B2Y	128 kg/km	10xOD mm

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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