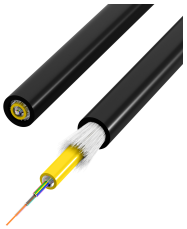
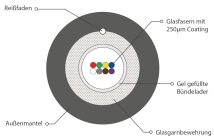
DATASHEET

INFRALAN® U-DQ(ZN)BH OM3 8G (1x8) Eca 2000N LSZH black 5.8mm





General data

The fiber optic cable with a central, gel-filled loose tube and up to 24 fibers is ideal for structured cabling. Thanks to a high tensile strength of 2000N, it is designed for both indoor and outdoor applications. The dielectric construction with glass yarn reinforcement makes it longitudinally watertight and offers additional protection through a flame-retardant sheath.
It can be used outdoors, when laid directly underground in sand beds or in shafts, and as a flame-retardant cable indoors.
This cable is versatile for LAN and WAN backbones, telecom access lines, fiber-to-business, fiber-to-the-home and access connections.
Features:
• Universal cable for versatile applications
• The sheath is made of halogen-free, flame-retardant material in accordance with IEC 60332-1-2 and Eurofire class

This datasheet was created automatically on 24-10-2026 . Technical changes reserved.

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WIR SORGEN FÜR VERBINDUNG
WE CARE FOR CONNECTION

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Eca.
• Suitable for connector assemblies, supports easy integration into existing networks
• Metal-free and longitudinally watertight
• Rodent-proof and flame-retardant
• The cable diameter can vary depending on the design and number of fibers
• DIN/VDE: U-DQ(ZN)BH

Technical properties	
Application	Inside/outside
Armouring	True
Blow in	False
Cable metal free	True
Cable silicone free	True
Circuit integrity	False
Colour outer sheath	black
Crush resistance	2000 N/dm
Fiber Colours	white
Fiber marking	Colour
Fibre category	OM3
Fibre type	Multi mode 50/125
Flame retardant	acc. to EN 60332-1-2
Halogen free	acc. to EN 60754-1/2
Harmonised Standard	EN 50575
IL max. (dB/km) 1300nm	1.0 dB/km
IL max. (dB/km) 850nm	3.0 dB/km
Longitudinal water blocking	True
Low smoke	Yes
Material outer sheath	LSZH
Oil resistant	no
Oil resistant (acc. EN 60811-2-1)	False
Radial water blocking	True
Resistant to chemicals	False
Scope of delivery	1x Cable, 1x Drum
Temperature Range (Installation)	-15 – 40 °C
Temperature Range (Operation)	-30 – 60 °C
Temperature Range (Storage)	-30 – 60 °C
Tube marking	Colour
Tube Ø	2.8 mm

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Type of tube	Central tube
UV resistant	yes
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.	Fire load	Minimum bending radius (dynamic)	VDE-Name	Weight	Minimum bending radius (static)
54504.1D-E2	INFRALAN® U-DQ(ZN)BH OM3 4G (1x4) Eca 2000N LSZH black 5.8mm	Eca	5.8 mm	OM3	4	2000 N	4	(1x4)	True	5.8 mm	864 MJ/km	20xOD mm	U-DQ(ZN)BH 4G50/125	33.6 kg/km	10xOD mm
54508.1D-E2	INFRALAN® U-DQ(ZN)BH OM3 8G (1x8) Eca 2000N LSZH black 5.8mm	Eca	5.8 mm	OM3	8	2000 N	8	(1x8)	True	5.8 mm	864 MJ/km	20xOD mm	U-DQ(ZN)BH 8G50/125	33.6 kg/km	10xOD mm
54512.1D-E2	INFRALAN® U-DQ(ZN)BH OM3 12G (1x12) Eca 2000N LSZH black 5.8mm	Eca	5.8 mm	OM3	12	2000 N	12	(1x12)	True	5.8 mm	864 MJ/km	20xOD mm	U-DQ(ZN)BH 12G50/125	33.6 kg/km	10xOD mm
54524.1D-E2	INFRALAN® U-DQ(ZN)BH OM3 24G (1x24) Eca 2000N LSZH black 5.8mm	Eca	5.8 mm	OM3	24	2000 N	24	(1x24)	True	5.8 mm	864 MJ/km	20xOD mm	U-DQ(ZN)BH 24G50/125	33.6 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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