

standards: ISO/IEC 11801  
EN 187000  
IEC 60794-2  
EN 50173-1

## J-V(ZN)HH

Break-out optical cable for indoor application  
with Ø2 mm single-cables

J - cable for indoor installation  
V - tight buffer fiber  
(ZN) - nonmetal supporting element  
H - halogen-free sheath  
H - halogen-free common sheath



### Technical data

#### Temperature range:

- operating: -20 °C up to +70 °C
- at laying: -5 °C up to +70 °C
- at storage: -25 °C up to +70 °C

#### Behaviour in fire:

- Self-extinguishing cable acc. to IEC 60332-1 / EN 60332-1 / VDE 0482-332-1
- halogen-free acc. to IEC 60754-1
- non-corrosive combustion gases acc. to IEC 60754-2
- minimal smoke release acc. to IEC 61034-2
- no flame propagation in vertical cable bundle acc. to IEC 60332-3-24

Resistance to pressure: 1500 N / 100 mm

Resistance to torsion: 5 ± 1 turn / 1 m

### Construction

#### 1. Single-cable:

- **Fiber:** tightly buffered, of 900 µm ± 50 µm diameter
- **Reinforcement:** aramid yarns around fiber
- **Sheath:** halogen-free compound, of 2 mm external diameter, with numbered marks

#### 2. Central supporting element: FRP (Fiberglass Reinforced Plastic), sheathed with halogen-free compound

#### 3. 2 - 24 single-cables stranded around central element

#### 4. Separator: polyester foil

#### 5. Ripcord: polyester

#### 6. Sheath: Flame retardant halogen-free compound, resistant to UV-irradiation, of 1,1 mm thickness

Number of optical fibers	External cable diameter	Bending radius - long-term		Bending radius - short-term		Permitted fire load		Constant tensile strength	Short-term tensile strength (several days)	Tensile strength at installation (several hours)	Cable weight
		min. mm	max. mm	min. mm	max. mm	max. MJ/km	max. kWh/m				
2	7,5	130	75	130	75	870	0,24	450	900	1300	60
4	7,5	130	75	130	75	870	0,24	450	900	1300	60
6	8,5	150	100	150	100	1200	0,33	600	1200	1800	75
8	10,0	150	100	150	100	1500	0,42	800	1600	2400	100
12	12,5	250	150	250	150	2500	0,7	1150	2300	3500	160
24	14,5	280	175	280	175	3600	1	1500	3000	4500	210

### Application

Break-out cable serves for easier distribution, each of them acting as a complete unit with tight-buffer optical fibers, sheathed with halogen-free compound, the cable can be splitted individually by opening outer, sheath.

Can be used for different indoor applications: LAN system backbones, links between central offices, backbones in information centers etc. Watertight cable, resistant to UV-irradiation, can be applied also outdoor in shorter segments.

Can be laid in cable canals and on trays.

Improved properties under fire.

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