

Product Datasheet

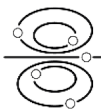
Fiber Optic Cable: Riser TB

J-V(2ZN)H G.657.A1 400N

Order information

Design	Part number
J-V(2ZN)H 4 G.657.A1 400N Ø 6.5 mm	0082-6738
J-V(2ZN)H 12 G.657.A1 400N Ø 8.5 mm	0082-5299
J-V(2ZN)H 24 G.657.A1 400N Ø 10.5 mm	0082-13547
J-V(2ZN)H 36 G.657.A1 400N Ø 14.5 mm	0082-52892
J-V(2ZN)H 48 G.657.A1 400N Ø 14.5 mm	0082-52895

Product Pros



All-dielectric design



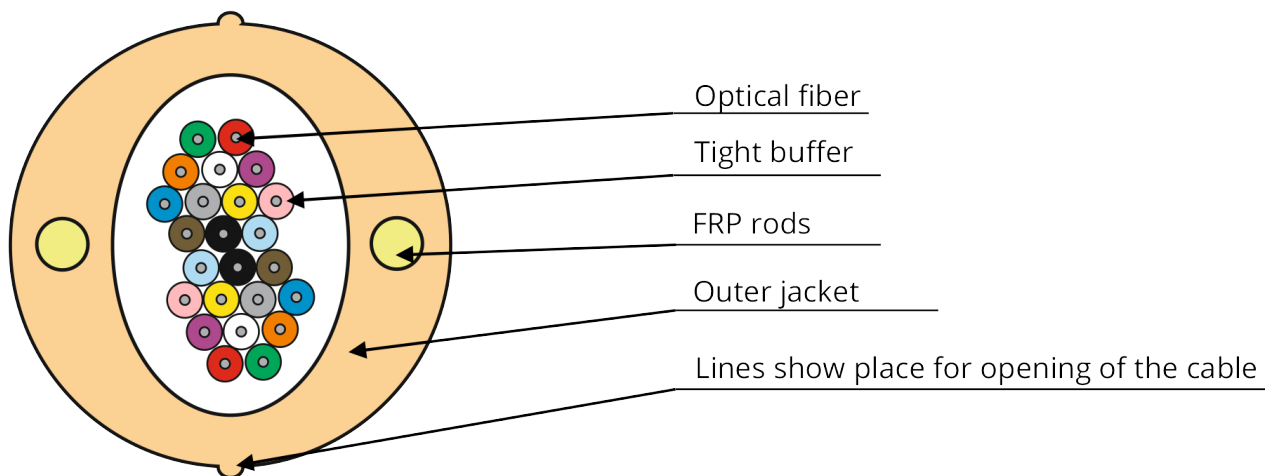
Flame-retardant



UV-resistant

















































Application and design

For installation inside buildings with direct access to the fiber.



Cable consists of bundle of tight buffered fibers. Outer jacket is made of halogen free material. Two strength elements (FRP rods) are located inside the jacket. Other colors of outer jacket upon request.

Color identification of buffered fibers is according to ANSI/TIA-598-D-2014

1	2	3	4	5	6	7	8	9	10	11	12
											
blue	orange	green	brown	slate	white	red	black	yellow	violet	rose	aqua
13	14	15	16	17	18	19	20	21	22	23	24
											
blue 1 ring	orange 1 ring	green 1 ring	brown 1 ring	slate 1 ring	white 1 ring	red 1 ring	black 1 ring	yellow 1 ring	violet 1 ring	rose 1 ring	aqua 1 ring
25	26	27	28	29	30	31	32	33	34	35	36
											
blue 2 rings	orange 2 rings	green 2 rings	brown 2 rings	slate 2 rings	white 2 rings	red 2 rings	black 2 rings	yellow 2 rings	violet 2 rings	rose 2 rings	aqua 2 rings
37	38	39	40	41	42	43	44	45	46	47	48
											
blue 3 rings	orange 3 rings	green 3 rings	brown 3 rings	slate 3 rings	white 3 rings	red 3 rings	black 3 rings	yellow 3 rings	violet 3 rings	rose 3 rings	aqua 3 rings

Other colors upon request

Cable marking example

Marking is made on each meter of cable

Fiber optic cable = WIREX = J-V(ZZN)H 4 G.657.A1 400N Ø 6,5mm BATCH 2020 = 00001 m =

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1
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6
7
8

1	Cable type	5	Cable diameter
2	Fiber count	6	Batch number
3	Fiber type	7	Year of production
4	Tensile strength	8	Meter marking

Design details

Number of optical fibers in cable	Cable diameter, ±0.5 mm	Cable weight, kg/km	Minimum bending radius of the cable, mm
4	6.5	41.5	65
12	8.5	63.8	85
24	10.5	90.1	105
36	14.5	156.5	145
48	14.5	168.6	145

Other designs upon request

Operating parameters

Operation temperature	-30°C...+50°C
Installation temperature	-10°C...+50°C
Transportation and storage temperature	-50°C...+50°C
Life time	25 years (per fiber supplier)

Optical fiber	
Fiber type	«G.657.A1»
Fiber manufacturer	Corning®
ITU-T Recommendation	G.657.A1
Dimensional Specifications	
Core-Clad Concentricity	0.5 µm
Cladding Diameter	125 ±0.7 µm
Cladding Non-Circularity	0.7 %
Coating Diameter	242 ±5 µm
Transmission Specifications	
Attenuation in the cable (dB/km*):	
1310 nm wavelength (Typical** / Max.)	0.35 / 0.38
1550 nm wavelength (Typical** / Max.)	0.20 / 0.30

* Increased attenuation, uneven incline of OTDR trace, and attenuation discontinuities on the first 500 m associated with cable winding on a reel are allowed.

** Typical attenuation is the real level of optical attenuation of at least 90% fibers after cabling

Cable parameters		
Parameter	Nominal value	Evaluation criterion
Tensile strength (IEC 60794-1-21 method E1)	400 N	
Crush (IEC 60794-1-21 method E3)	80 N/cm	- $\Delta\alpha^* \leq 0.05$ dB - no damage
Repeated bending (IEC 60794-1-21 method E6)	20 cycles, bending radius $\pm 90^\circ$	
Torsion (IEC 60794-1-21 method E7)	- 10 cycles - torsion angle $\pm 360^\circ$ length 4 m	
Impact (IEC 60794-1-21 method E4)	Impact energy 3 J	
Temperature cycling** (IEC 60794-1-22 method F1)	- temperature range from -30°C to 50°C - 2 cycles - cycle period ≥ 16 hours	$\Delta\alpha^* \leq 0.05$ dB/km

* - attenuation increasing at standard wavelengths

** - other temperature range upon request

Safety standards compliance	
IEC 60332-3-22	Tests on electric and optical fiber cables under fire conditions - Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A
IEC 60754-1	Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content
IEC 60754-2	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity
IEC 61034-2	Measurement of smoke density of cables burning under defined conditions
RoHS: 2011/65/EU; 2015/863/EU	"Restriction on the use of certain Hazardous Substances"
REACH: 1907/2006/EU	"Registration, Evaluation, Authorisation and Restrictions of Chemicals"

Reel packing and marking

Cables are supplied on non-returnable wooden reels. Reel diameter is not less than 40 diameters of the cable. Not less than 2 m of inside end of the cable is fixed to the reel flange. The cable ends are sealed with waterproof covers.

The label on the outer reel flange contains our trademark, cable type, customer's name and PO, reel number, production date, cable length, cable weight net/gross.

The following information is printed on the reel flange: manufacturer's name and website, rotation direction, cable end indication, shipping and handling summary, labels "Fragile" and "Handle with care".

Our cable passport shows: cable type, technical standard number, cable length, fiber type, fiber coloring, fibers per tube, tube identification coloring, final attenuation for all fibers, refractive index of the fiber, fiber manufacturer and production date.

Cable passport is affixed to the inner flange in a plastic bag. Additional information can be included on the passport upon request.
