I-V(ZN)H Mini Breakout Cable

Mini breakout cable up to 24 fibers
I-V(ZN)H Indoor cable

Product description

Mini Breakout Cable 7.2 mm constructed of 24 strands of fiber with 900µ tight or semi-tight buffer tubes, aramid yarn layer for strength and physical support. Outer jacket made of low smoke zero halogen materials that use in applications where smoke emission and toxic fumes could pose a risk to human health and essential equipment in the event of a fire. (LSZH)

Features

- Indoor metal free 24 fibers mini breakout cable
- Completely dry design
- For direct connector assembly
- High flexibility and light weight
- Halogen free and non-corrosive fire gases
- Low fire load for high safety requirements
- Jacket material in accordance with UL 94V-0

Cable construction

- Fiber SM or MM (250µ)
- Tigh Buffer Tube of 900µ LSZH
- Aramid Strength Member
- LSZH Outer jacket

Sheet marking

- Black Jacket: White / Ink-Jet
- Length marking 1 m intervals
- Name, fiber count, fiber type, product code, cable type, date, meter marking

Opticonnect SYSTEMS B.V., an Optical Networking vendor with its headquarters in the Netherlands, provides Optical Transport solutions and Optical Transceivers at the best price performance ratio possible. Our goal is to simplify the planning, deployment and maintenance of complex Optical Networks. This is achieved by our user friendly planning apps and information, sophisticated products and transparent support. Relying on our superior product quality, all items are supplied with life time warranty.

Ordering information

Partnumber	Description
OPT-CA-IV(ZN)HBO-A1-06	Int · SM G657.A1 9/125 · Dielectric Reinforced Unitube · 06 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-A1-12	Int · SM G657.A1 9/125 · Dielectric Reinforced Unitube · 12 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-A1-24	Int · SM G657.A1 9/125 · Dielectric Reinforced Unitube · 24 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M1-06	Int · MM OM1 62,5/125 · Dielectric Reinforced Unitube · 06 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M1-12	Int · MM OM1 62,5/125 · Dielectric Reinforced Unitube · 12 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M1-24	Int · MM OM1 62,5/125 · Dielectric Reinforced Unitube · 24 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M3-06	Int · MM OM3 50/125 · Dielectric Reinforced Unitube · 06 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M3-12	Int · MM OM3 50/125 · Dielectric Reinforced Unitube · 12 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M3-24	Int · MM OM3 50/125 · Dielectric Reinforced Unitube · 24 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M4-06	Int · MM OM4 50/125 · Dielectric Reinforced Unitube · 06 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M4-12	Int · MM OM4 50/125 · Dielectric Reinforced Unitube · 12 Fibers · LSZH · Break-Out cable
OPT-CA-IV(ZN)HBO-M4-24	Int · MM OM4 50/125 · Dielectric Reinforced Unitube · 24 Fibers · LSZH · Break-Out cable

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Cable coding system

CA-ADQ(ZN)2YMC-A1-144

Example

Field of application	
Indoor Cable	I
Outdoor Cable	A
Universal Cable	U

Buffered Fiber Type	
Tight Buffered Fiber	V
Gel-Filled Loose tube	D
Fel-filled Plastic tube	W

Constructional composition	
Dry core, Longitudinally watertight	Q
Grease filled	F
Non-metallic strain relief	(ZN)
Steel strain relief	(ZS)
Armour	B
Corrugated steel cladding	W

Inner Jacket Mixtures	
PVC (Polyvinyl Cholride)	Y
PE (Polyethylene)	2Y
PA (Plyamide)	4Y
ETFE (Tetrafluoroethylene)	7Y
PP (Polypropylene)	9Y
PUR (Polyurethane)	11Y
H (FRNC Jacket; TPE-O)	H

Fiber amount	
36 Fibers	36
48 Fibers	48
60 Fibers	60
72 Fibers	72
96 Fibers	96
144 Fibers	144
192 Fibers	192
288 Fibers	288
576 Fibers	576

Fiber type	
Singlemode G652.D	2D
Singlemode G657.A1	A1
Singlemode G657.A2	A2
Multimode OM1	M1
Multimode OM2	M2
Multimode OM3	M3
Multimode OM4	M4

Cable Type	
Micro Cable Multitube	MC
Micro Cable Unitube	MU
EPFU Cable	EP
Tactical Fiber Cable	TF
Breakout Cable	BO

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Performance specifications

Cable Construction					
Fiber Type		**SM**	**OM1**	**OM3**	**OM4**
Jacket Color		Yellow	Orange	Aqua	Violet
Core Diameter (µm)		9 ± 0.5	62,5 ± 2.5	50 ± 2.5	50 ± 2.5
Cladding Diameter (µm)		125 ± 5	125 ± 5	125 ± 5	125 ± 5
Primary Coating Diameter (µm)		245 ± 10	245 ± 10	245 ± 10	245 ± 10
Attenuation Max in cable (dB/km)	@1310 nm	≤0,40			
	@1550 nm	≤0,30			
	@850 nm		≤3,4	≤3,0	≤3,0
	@1300 nm		≤1,0	≤1,0	≤1,0
Bandwith (overfilled)	@850 nm		200 Mhz*km	1500 Mhz*km	3500 Mhz*km
	@1300 nm		500 Mhz*km	500 Mhz*km	500 Mhz*km
Serial Ethernet 1 Gigabit	@850 nm			1000 meters	1040 meters
	@1300 nm			600 meters	600 meters
Serial Ethernet 10 Gigabit	@850 nm			300 meters	550 meters
	@1300 nm			300 meters	300 meters

Combustion Properties				
Test Conditions	**Type**	**Value**	**Result**	**Method**
Fire Load	All types	1,5 Mj/m		
Fire Popagation Vertical Single Cable	All types		Passed	IEC 60332-1-2
Smoke Density	All types		Passed	IEC 61034-2
Halogen Acid Gas Jacket material	All types		Passed	IEC 60754-1
Degree of Acidity Jacket material	All types		Passed	IEC 60754-2

Performance specifications

Charicteristics					
Test	**Test Conditions**	**6F**	**12F**	**24F**	**Method**
Tight ø		0,9 mm	0,9 mm	0,9 mm	IEC 60811-203
Cable Ø		5,2 mm	6,5 mm	8,0 mm	IEC 60811-203
Cable Weight		20 kg/km	42 kg/km	55 kg/km	IEC 60811-203
Max Tensile Strength	**During Instal**	800 N	800 N	800 N	IEC 60794-1-2 E1
	In service	500 N	500 N	500 N	
Min. Bending Radius	**During Instal**	15xD	15xD	15xD	IEC 60794-1-2 E11
	In service	10xD	10xD	10xD	
Crush Resistance	**Short Term**	4000 N/dm	4000 N/dm	4000 N/dm	IEC 60794-1-2 E3
	Long Term	1500 N/dm	1500 N/dm	1500 N/dm	
Impact Resistance	**WP=2.21J**	100 Impact	100 Impact	100 Impact	IEC 60794-1-2 E4
Repeated Bending	**R=50mm, Weight = 1kg**	2000 Cycles	2000 Cycles	2000 Cycles	IEC 60794-1-2 E6
Temperature Range	**During Instal**	-10° ~ 50°	-10° ~ 50°	-10° ~ 50°	IEC 60794-1-22 F1
	In service	-20° ~ 70°	-20° ~ 70°	-20° ~ 70°	
	In storage	-25° ~ 70°	-25° ~ 70°	-25° ~ 70°	