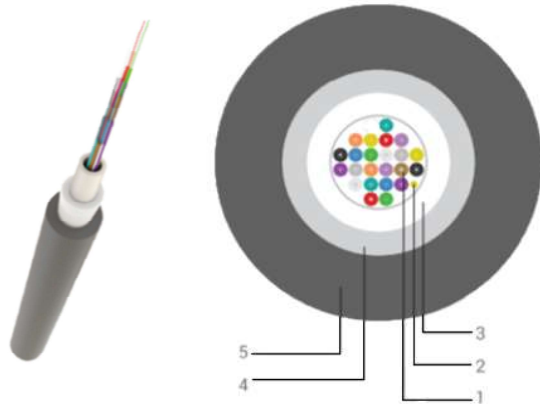




U-DQ(ZN)H Indoor/Outdoor



Gel-Free Central Loose Tube Cable
U-DQ(ZN)H Indoor/Outdoor



Product description

This B2ca compatible universal loose tube fiber optic cable consists of up to 24 fibers in 900µ tight or semi-tight buffer tubes that are joined in a gel-free LSZH loose tube. The loose tube is surrounded by a swellable glass yarn strength member and a UV resistant low smoke zero halogen LSZH protective jacket.

Features

- Metal free
- Indoor/Outdoor cable
- Glass yarn strength member
- LSZH - Low Smoke Zero Halogen
- Gel-Free (Dry tube)
- CPR: B2Ca

Cable construction

- 1 Fiber
- 2 Water Swellable Yarn
- 3 Loose Tube
- 4 Swellable Glass Yarn
- 5 UV Resistant LSZH

Sheet marking

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



All product specifications are subject to change without notice to improve reliability, function or design or otherwise.

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
CA-UDQ(ZN)HB2-2D-04	Int/Ext · SM G652.D 9/125 · Dielectric Reinforced Gel-Free Unitube · 04 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-2D-06	Int/Ext · SM G652.D 9/125 · Dielectric Reinforced Gel-Free Unitube · 06 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-2D-12	Int/Ext · SM G652.D 9/125 · Dielectric Reinforced Gel-Free Unitube · 12 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-2D-24	Int/Ext · SM G652.D 9/125 · Dielectric Reinforced Gel-Free Unitube · 24 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M1-04	Int/Ext · MM OM1 62,5/125 · Dielectric Reinforced Gel-Free Unitube · 04 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M1-06	Int/Ext · MM OM1 62,5/125 · Dielectric Reinforced Gel-Free Unitube · 06 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M1-12	Int/Ext · MM OM1 62,5/125 · Dielectric Reinforced Gel-Free Unitube · 12 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M1-24	Int/Ext · MM OM1 62,5/125 · Dielectric Reinforced Gel-Free Unitube · 24 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M3-04	Int/Ext · MM OM3 50/125 · Dielectric Reinforced Gel-Free Unitube · 04 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M3-06	Int/Ext · MM OM3 50/125 · Dielectric Reinforced Gel-Free Unitube · 06 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M3-12	Int/Ext · MM OM3 50/125 · Dielectric Reinforced Gel-Free Unitube · 12 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M3-24	Int/Ext · MM OM3 50/125 · Dielectric Reinforced Gel-Free Unitube · 24 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M4-04	Int/Ext · MM OM4 50/125 · Dielectric Reinforced Gel-Free Unitube · 04 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M4-06	Int/Ext · MM OM4 50/125 · Dielectric Reinforced Gel-Free Unitube · 06 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M4-12	Int/Ext · MM OM4 50/125 · Dielectric Reinforced Gel-Free Unitube · 12 Fibers · LSZH · CPR Class B2ca
CA-UDQ(ZN)HB2-M4-24	Int/Ext · MM OM4 50/125 · Dielectric Reinforced Gel-Free Unitube · 24 Fibers · LSZH · CPR Class B2ca



Cable coding system

CA-UDQ(ZN)HB2-M4-24

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 Chloride)	Y
PE (Polyethylene)	2Y
PA (Polyamide)	4Y
ETFE (Tetrafluoroethylene)	7Y
PP (Polypropylene)	9Y
PUR (Polyurethane)	11Y
H (FRNC Jacket; TPE-O)	H

Fiber amount	
04 Fibers	04
06 Fibers	06
08 Fibers	08
12 Fibers	12
16 Fibers	16
24 Fibers	24

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

CPR classification	
Fca	F
Eca	E
Dca	D
Cca	C
B2ca	B2



Performance specifications

Characteristics					
Fiber Type		SM	OM1	OM3	OM4
Jacket color		Black	Orange	Aqua	Violet
Core Ø (µm)		9 ± 0,5	62,5 ± 2,5	50 ± 2,5	50 ± 2,5
Cladding Ø (µm)		125 ± 5,0	125 ± 5,0	125 ± 5,0	125 ± 5,0
Coating Ø (µm)		245 ± 10	245 ± 10	245 ± 10	245 ± 10
Attenuation	@1310nm	≤0,40dB/KM			
	@1550nm	≤0,30dB/KM			
	@850nm		≤3,4dB/KM	≤3,0dB/KM	≤3,0dB/KM
	@1300nm		≤1,0dB/KM	≤1,0dB/KM	≤1,0dB/KM
Bandwith (overfilled)	@850nm		200 Mhz*km	500 Mhz*km	3500 Mhz*km
	@1300nm		500 Mhz*km	500 Mhz*km	500 Mhz*km
1G Serial Ethernet	@850nm			1000 meters	1040 meters
	@1300nm			600 meters	600 meters
10G Serial Ethernet	@850nm			300 meters	550 meters
	@1300nm			300 meters	300 meters



Performance specifications

Characteristics				
Test	Test Conditions	4-12F	24F	Method
Tube Ø		2,5 ± 3% mm	3,0 ± 3% mm	IEC 60811-203
Cable Ø		6,1 ± 0,2 mm	6,5 ± 0,2 mm	IEC 60811-203
Cable Weight		45 ± 10% mm	50 ± 10% mm	
Max. Tensile Strength	During installation	1200 N	1200 N	IEC 60794-1-2 E1
	In service	600 N	600 N	IEC 60794-1-2 E1
Min. Bending Radius	During installation	115 mm	115 mm	IEC 60794-1-2 E11
	In service	85 mm	85 mm	IEC 60794-1-2 E11
Crush Resistance	Short Term	2000 N/dm	2000 N/dm	IEC 60794-1-2 E3
	Long Term	800 N/dm	800 N/dm	IEC 60794-1-2 E3
Impact Resistance	Wp=1.5J	3 Impact	3 Impact	IEC 60794-1-2 E4
Repeated Bending	r=20xD	25 Cycles	25 Cycles	IEC 60794-1-2 E6
Water Penetration	h=1m, 48h, p<3m	passed	passed	EC 60794-1-22 F5B
Temperature Range	In service	-20°C ~ 60°C	-20°C ~ 60°C	IEC 60794-1-22 F1
	In storage	-40°C ~ 70°C	-40°C ~ 70°C	IEC 60794-1-22 F1
	During installation	0°C ~ 50°C	0°C ~ 50°C	IEC 60794-1-22 F1

Combustion Properties				
Test Conditions	Type	Value	Result	Method
Fire Load	All types	1,5 MJ/m		
Fire Propagation 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