

BLACK-STONE Non-Metallic Direct Burial Cable

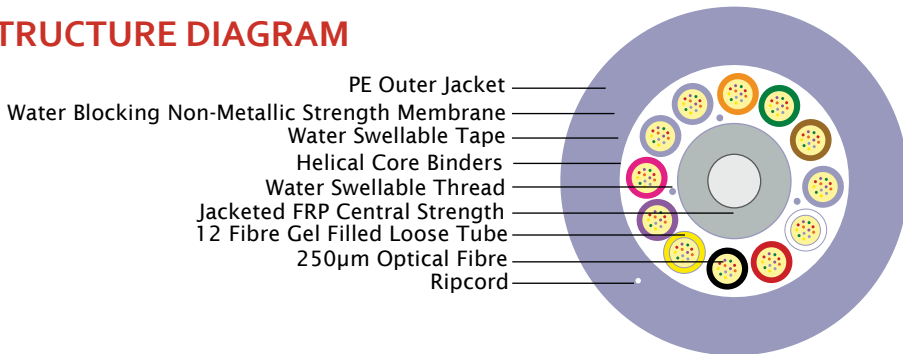


BLACKSTONE 12 elements multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with water-swellable threads and waterswellable tape. Helically applied non metallic strength members with ripcord. corrugated steel tape (CST) armouring and black high density polyethylene (HDPE) jacket.

FEATUERS

- Multi-layered stranded construction (up to 144 fibres)
- Non-metallic construction
- Particularly light, thin and robust cable
- PE - jacket
- Wrapping is made of water blocking tape
- Dielectric central strength member

STRUCTURE DIAGRAM



APPLICATION

- Suitable for external duct applications
- Suitable for concrete channels
- Can be pulled into duct system

Rodent Resistant

External Use

Installation Tempreture
Min0°C

Water Resistant

STANDERD

Tested to meet or exceeds TIA/ EIA-455-85A, TIA/EIA-455-25C, TIA/EIA-455-37A, TIA/EIA-455-33B, GR-20-CORE, GR-409-CORE, ICEA S-87-640, ICEA S-104-696, ICEA S-83-596

Mechanical Characteristics Cable

DESCRIPTION	12-Cores	24-Cores	36-Cores	48-Cores	60-Cores	72-Cores	96-Cores	120-Cores	144-Cores	
Cable Diameter (mm)	11.2	11.2	11.2	11.2	11.2	11.2	12.7	14.3	16.0	
Cable Weight(kg)	91	91	91	91	91	91	125	155	190	
Max. Tensile Load during installation	2700	2700	2700	2700	2700	2700	2700	2700	2700	
Fibers per loose tube	12	12	12	12	12	12	12	12	12	
Number of loose buffer tube	1	2	3	4	5	6	8	10	12	
Number of standing elements	6	6	6	6	6	6	6	6	6	
Min. Bend Radius	20x cable outer diameter (during laying and installation)						15x cable outer diameter (installed)			
Installation Temperature Range	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	-5~+50C	
Temp. Range	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-	
Transportation and Operation									40~+70C	

Black-stone

TRANSMISSION PERFORMANCE

Multimode					
Fiber Core Diameter (µm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	2.8/1.0	2.8/1.0	2.8/1.0	2.8/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/600	1000/600	1000/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-	5350/-
Single-mode					
Fiber Category	G.652.D		G.657.A2/G.657.B2 (OS2)		
Performance Option Code	31		31		
Wavelengths (nm)	1310/1383/1550		1310/1383/1550		
Maximum Attenuation (dB/km)	0.65/0.65/0.5		0.65/0.65/0.5		

PART NUMBER

Description	Single Mode	OM1	OM2	OM3	OM4	OM4+
BLACK-STONE Non-Metallic Direct Burial Cable, PE	BSDBOS2**BL-PE	BSDBOM1**BL-PE	BSDBOM2**BL-PE	BSDBOM3**BL-PE	BSDBOM4**BL-PE	BSDBOM4+**BL- PE

** is the fiber count between 12 & 144

NOTE: Other diameters are available upon request.