

BLACK-STONE Double Jacket Direct Burial Cable

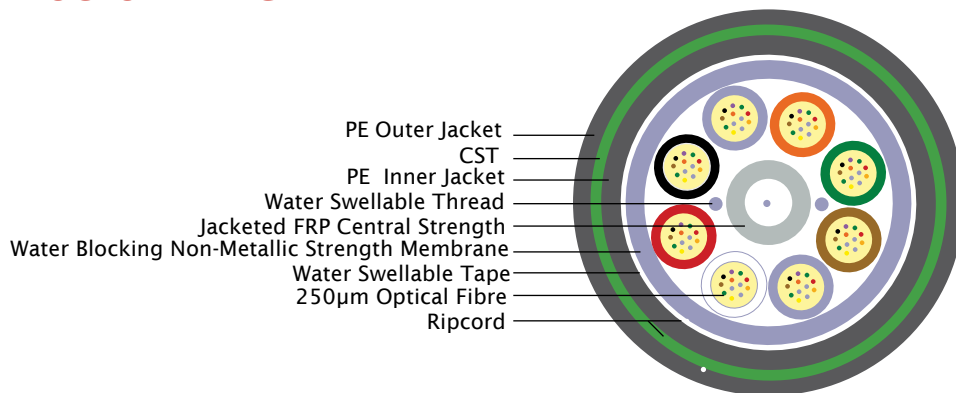


BLACKSTONE multi element multi loose tube cable construction consists of up to 144, 250µm optical fibres in 12 fibre gel filled loose tubes with fillers where appropriate, SZ stranded around a fibre reinforced plastic (FRP) central strength member with water-swappable threads and water-swappable tape.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

FEATUERS

- Single layer stranded construction (up to 144 fibres)
- Corrugated steel tape as protection against rodents and mechanical damage
- Particularly robust cable, filled loose tube
- Inner and outer jacket are made of PE- Jacket
- Wrapped in water blocking tape
- Core- stranded loose tube, SZ technique
- Tensile strength elements - dielectric central strength member

STRUCTURE DIAGRAM



APPLICATION

- Direct burial
- Used in application with high mechanical loads



Rodent Resistant



External Use



Installation Temperature 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)	14.7	14.7	14.7	14.7	14.7	14.7	16.2	17.8	19.5	
Cable Weight(kg)	195	195	195	195	195	195	235	280	325	
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	
Operation Temperature Range	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	-30~+70C	
Temp. Range Transportation	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	-40~+70C	

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 Double Jacket Direct Burial Cable, PE	BSddbOS2**BL-PE	BSddbOM1**BL-PE	BSddbOM2**BL-PE	BSddbOM3**BL-PE	BSddbOM4**BL-PE	BSddbOM4+**BL-PE

** is the fiber count between 12 & 144

NOTE: Other diameters are available upon request.