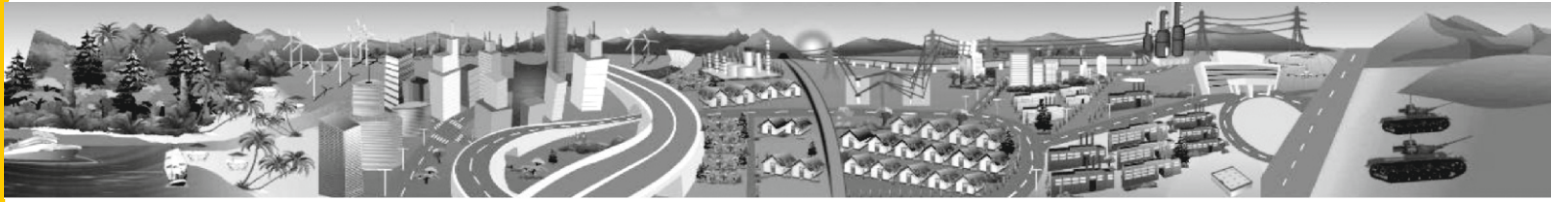


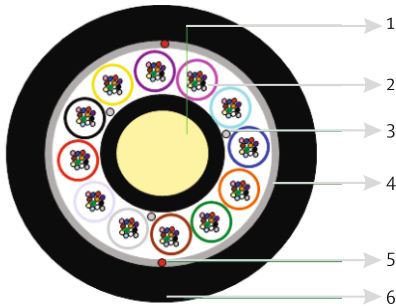
MICRO DUCT LITE™ Multitube Single Jacket Micro Duct Fiber Optic Cable



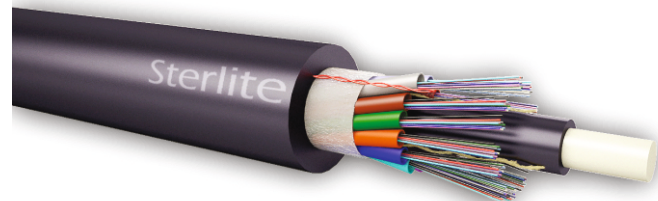
Product Details:

Sterlite® MICRO DUCT-LITE™ Multitube Single Jacket Micro Duct Fiber Optic Cables are typically used in micro duct installation applications. This cable is a stranded micro loose tube cable with optical fiber placed inside robust buffer tubes stranded around a fiber reinforced plastic (FRP) central strength member. In addition to optical fibers, the buffer tubes contain water blocking gel, and the cable core is surrounded with dry water-block tape to prevent water ingress in the tubes or cable core. Complete core is covered with polyethylene jacket making the cable robust and installation friendly.

Typical Construction of Cable:



- 1 CENTRAL STRENGTH MEMBER
- 2 MICRO LOOSE TUBE WITH FIBERS AND GEL
- 3 WS YARNS
- 4 CORE WRAPPING
- 5 RIPCORD(S)
- 6 OUTER SHEATH



Underground



Totally Dielectric



Water Blocked



UV Protected

Product Application

These cables are typically used for Access / Metro and (air blown) Drop cabling for FTTx networks, like Fiber to the Home (FTTH). Microcables can utilize existing and new duct systems more effectively by accommodating more fibers in given sub-duct network.

Features & Benefits:

- Available up to 288 Fiber count in all kinds of Single Mode and Multimode Optical Fibers
- As compared to conventional cable, Micro Cable diameter is less and thereby reducing installation costs.
- Excellent solutions for new and existing duct systems. Typically blown into micro ducts previously installed into large ducts.
- Maximizes duct and rights-of-way utilization.
- Reduced size and weight aids transportation, handling, and blowing distances.
- Multitube design with ripcords for easy and quick mid-span access.
- Minimal fiber strain due to S-Z stranding.
- Dry core technology helps in quicker end preparation.
- Easily removable rugged PE (Polyethylene) jacket.
- Dielectric nature of cable enables it to be placed alongside high voltage lines
- Longer reel lengths available on request.
- Composite fiber types available on request.

Specifications:

Cable Configuration

Fiber Count	12-72	96	144F (6LT X 24F)	144F(12LT X 12F)	288F(24LT X 12F)
Nom. Diameter of Cable (mm)	5.8	6.6	7.9	8.9	10.5
Nom. Weight of Cable (kg/km)	30	45	65	75	90

Mechanical & Environmental Characteristics

Characteristic	Test Standard	Testing Value	Acceptance Criteria
Max.Tensile Strength	IEC-60794-1-21-E1	700N	Change in attn. \leq 0.05 dB/km. No damage or crack on cable & no fiber break
Bending Radius			
-Dynamic	IEC-60794-1-21-E11	20 D	
-Static	IEC-60794-1-21-E11	15 D	
Crush Resistance	IEC-60794-1-21-E3	1000 N / 100 mm	
Impact Strength	IEC-60794-1-21-E4	10 N.m	
Torsion	IEC-60794-1-21-E7	$\pm 180^\circ$	
Temp.Performance			
Installation	IEC-60794-1-22-F1	-10°C to +50°C	
Operation		-20°C to +70°C	
Storage		-30°C to +70°C	
Water Penetration	IEC-60794-1-22-F5B	1 m head,3m samples,24 hrs	No water leakage after 24 hours

Color coding

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Cable Length Multiple:

Standard length per reel 4 Km. Custom reel lengths are available upon request

Performance Standard:

Cable Complies to Standards of IEC.60794, ANSI/ICEA S-87-640, Telcordia GR-20, IEC, ITU-T