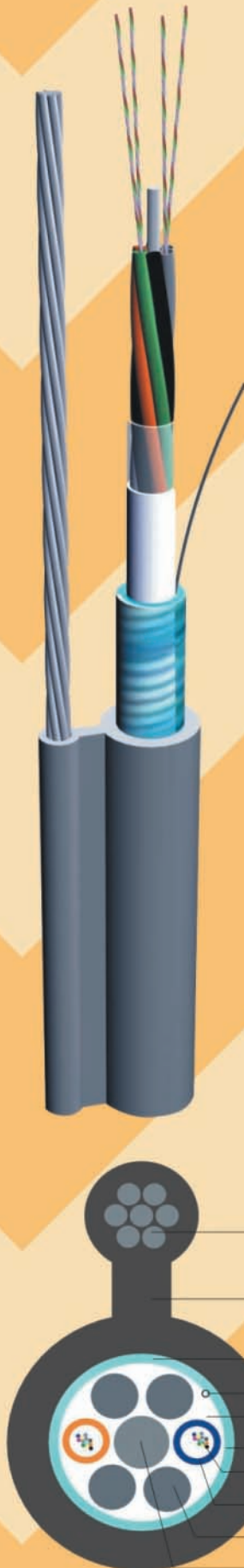


FIGURE-8 CABLE

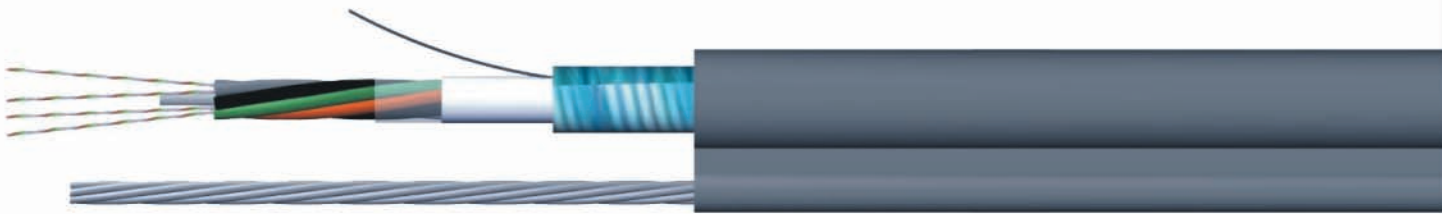
CABLE CONSTRUCTIONS



A self supporting optical cable in a figure of 8 configuration, for installation on telecom poles. Armored construction provides additional mechanical protection.

- **CENTRAL STRENGTH MEMBER**
Provides both tensile and anti-buckling to the cable. Available in metallic (phosphated steel wire) or non-metallic (GRP) strength member.
- **FILLED BUFFER TUBE**
Tubes made of PBT (polybutylene terephthalate), fully water-blocked with a thixotropic compound, stranded together around central strength member.
- **FILLER**
Where necessary, number of fillers are placed among stranded tubes. Filler made of polyethylene or polymeric material.
- **OPTICAL FIBRES**
Available up to 12 colored fibres per tube, single mode or multi mode type.
- **WATER BLOCKING MATERIAL**
Applied to cable core to prevent the ingress of water longitudinally, using swellable material for dry core or flooding compound for jelly filled design.
- **PERIPHERAL STRENGTH MEMBER**
Where necessary, aramid or glass yarns added and distributed over the cable core to enhance its strain characteristic.
- **WRAPPING TAPE**
The cable core covered with plastic or swellable tape.
- **SHEATH**
Polyethylene proven as a suitable material for sheathing since provides the cable with a tough, flexible, protective covering, able to withstand exposure to sun light, the atmospheric temperature and stresses during installation and service.
- **ARMOR**
Protects the cable from termite, rodent or mechanical disturbance such as crush and impact. Available in metallic (corrugated steel tape) or non-metallic armor (glass tape).
- **RIPCORD**
It's made of nylon or aramid yarns, to provide a means for quick sheath removal.
- **MESSENGER WIRE**
Wire incorporated into the sheath to form a figure of 8 cross sectional design and must be strong enough to carry the weight of cable in all expected environmental conditions.

- ① Messenger wire
- ② Outer sheath
- ③ Armor
- ④ Ripcord
- ⑤ Water blocked material
- ⑥ Wrapping tape
- ⑦ Optical fibres
- ⑧ Filled buffer tube
- ⑨ Filler
- ⑩ Central strength member



FEATURE / BENEFITS

- Fibre count up to 144
- Also available unarmored and dry core design for easier handling
- Low installation costs, using standard hardware and working methods
- Suitable for short or medium span routes
- Complies with international or national standard (IEC, STEL-K)

FULL RANGE OF FIBRE TYPES

- G. 651 (Multi mode fibre)
- G. 652 (Single mode fibre)
- G. 655 (NZD fibre for DWDM application)

TYPICAL PARAMETER*

Number of fibres			up to 72	up to 92	up to 144
Nominal diameter	(minor axes)	mm	11.8	13.2	16.3
	(major axes)	mm	21	24	28
Nominal cable weight		kg/km	235	320	475
Minimum bend radius		mm	250	275	300
Maximum working tension		N	2000	4000	6000
Messenger wire	(number & diameter)	No x mm	7 x 1.2	7 x 1.6	7 x 2.0
Temperatures	Operation	°C		-40 to +70	
	Installation	°C		-20 to +40	
	Storage	°C		-40 to +70	
Crush resistance		N/100mm		3000	
Impact resistance		N.m		10	

*Referred to armored design. Many different construction options are available upon specific customer requirements

Full range of protections



Water blocked



Rodent resistant

Full range of applications



Outdoor



Aerial

Further protections available



Flame retardant



Shotgun resistant