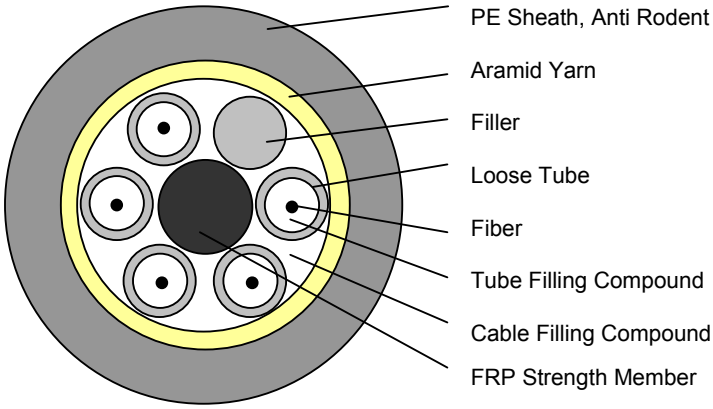
Unmet OUTDOOR FIBER OPTIC CABLE

Cable Description

The fibers, either of single-mode or multimode type, are placed in a loose tube made of high modulus plastic. The tubes are filled with a water-resistant filling compound. A piece of Fiber Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular cable core. A layer of Aramid yarn is applied around the cable core as additional strength member. After the cable core is filled with the filling compound to protect it from water ingress, the cable is completed with a polyethylene (PE) sheath.

Cable Cross Section



Application

Aerial

Cable Information

Non-metallic Fiber Reinforced
Y Sheath
Non-metallic Cable

UNMHMXX

Cable Characteristics

- Accurate fiber excess length ensures good performance of tensile strength and temperature- High strength loose tube that is hydrolysis resistant and special tube filling compound ensure a critical protection of fiber
- PE sheath protects cable from ultraviolet radiation
- Optimized Agamid yarn application technique ensures the tensile strength performance
- Crush resistance and flexibility
- The following measures are taken to ensure the cable watertight:
    1. Single FRP used as the central strength member
    2. Special loose tube filling compound
    3. Complete cable core filling
- **Bending Radius:**
  Static: 10D (Diameter of cable)
  Dynamic: 20D (Diameter of cable)

Part Number Information

UNMHMXX
X = Type of Fiber Core (as Below Table)
X = Fiber Count (2 ~ 36)

X	Type Of Fiber Core
050	GIMM50
062	GIMM62
550	Max Band 550MM
150	Max Band 150MM
300	Max Band 300MM
100	LCMM100
200	LCMM200
50H	HBGIMM50
62H	HBGIMM62
FL	FLWPSM
09	MCSM
HC	HCLSDSSM
LH	LEAHCPDSSM
DS	DSSM
PD	PDSMM

UNMHMXX

Cable Parameters

Cable Type (Increased by 2 fiber)	Fiber Count	Tubes	Fillers	FRP mm	Loose Tube Size mm	Cable Diameter mm	Cable Weight Kg/km
UNMHMxx	4-6	1	5	2.25	1.5/2.1	11.0	100
UNMHMxx	8-12	2	4	2.25	1.5/2.1	11.0	100
UNMHMxx	14-18	3	3	2.25	1.5/2.1	11.0	100
UNMHMxx	20-24	4	2	2.25	1.5/2.1	11.0	100
UNMHMxx	26-30	5	1	2.25	1.5/2.1	11.0	100
UNMHMxx	32-36	6	0	2.25	1.5/2.1	11.0	100

Strength Long/Short Term: 600/1500 N

Crush Resistance Strength Long/Short Term: 300 / 1000 N / 100 mm