

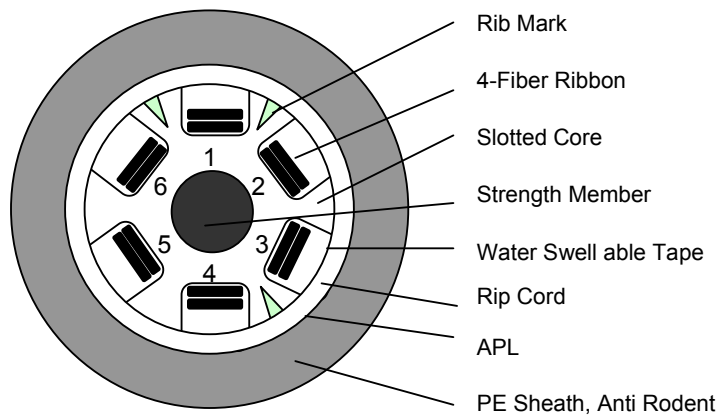
Part No. URAPGSXX



Cable Description

The fiber ribbons, single-mode type, are positioned in the slotted core made of HDPE. A steel wire or a steel rope locates in the center of core as a strength member. The slotted core is wrapped with a water swell able tape helical. Over the water swell able tape, an Aluminum Polyethylene Laminate (APL) is applied longitudinally. Then the cable is completed with a polyethylene (PE) sheath. A rip cord is placed between the APL and the water swell able tape in order to rip the cable easily.

Cable Cross Section



Application

Duct, Aerial

Cable Information

Slotted Core Fiber Ribbon

A Sheath Cable

Bending Radius:

Static: 10D (Diameter of cable)

Dynamic: 20D (Diameter of cable)

URAPGSXX

Part Number Information

URAPGSXX

X = Type of Fiber Core (as Below Table)

X = Fiber Count

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

Application Information

URAPGSxx cable possesses advantages like dense fiber packing, good crush-resistance and high splicing efficiency. It can fully meet the requests on installation and transmission capacity set by the modern telecommunications technologies (e.g. FTTB, FTTH, etc.), and it's especially applicable in the relay networks and access networks.

Specifications for Fiber in Ribbon Cable

	MCSM Fiber	LAPOSH® Fiber
Attenuation	≤0.38 dB/km @1310 nm ≤0.25 dB/km @1550 nm	≤0.25 dB/km @1550 nm
Zero dispersion slope	≤0.093 ps/(nm ² ·km)	≤0.092 ps/(nm ² ·km)
Zero dispersion wavelength	1302.0 nm – 1324.0 nm	≤1520 nm
Cut-off wavelength (λ _{cc})	≤1270 nm	≤1480 nm
Mode field diameter(MFD)	9.3±0.4 μm@ 1310 nm	9.6±0.5 μm @ 1550 nm
Cladding diameter	125±1.0 μm	125±1.0 μm
Cladding non-circularity	≤1.0%	≤1.0%
Core/cladding concentricity error	≤0.8 μm	≤0.8 μm
Curl	≥4 m	≥4 m
Proof test(off-line)	≥9.0 N (≥100 kpsi)	≥9.0 N (≥100 kpsi)

URAPGSXX

Cable Characteristics

- Through delicate structure design and process control, the slotted core fiber ribbon cable possesses good optical, mechanical and environmental performance
- The application of water swell able tape ensures the water blocking performance
- The dry core structure has overcome the shortage that the filling compound is difficult to clean, which increases the splicing efficiency and makes installation and maintenance easier
- Good crush-resistance performance provides good protection to fiber ribbons
- Dense fiber packing, relatively small diameter, light weight and installation friendliness
- The fiber branching is easy after the slotted core is cut open
- The rip cord placed into the cable facilitates ribbing the cable

Cable Parameters

Cable Type (Increased by 2 fiber)	Fiber Count	Max. Fiber Stack /Slot	Steel Wire mm	Cable Diameter mm	Cable Weight kg/km
4-Fiber Ribbone					
URAPGSxx	6	2	2.6	13.0	167
URAPGSxx	6	4	2.6	13.6	180
URAPGSxx	6	6	2.6	14.5	208
URAPGSxx	9	6	2.6	18.0	282
URAPGSxx	12	6	2.6	20.5	385
URAPGSxx	13	6	2.6	21.0	385
6-Fiber Ribbone					
URAPGSxx	3	4	2.3	14.0	190
URAPGSxx	5	4	2.6	14.5	220
URAPGSxx	6	4	2.6	17.0	260
URAPGSxx	6	6	2.6	18.0	306
URAPGSxx	9	6	2.6	21.0	390
URAPGSxx	7	8	2.6	20.5	390
URAPGSxx	9	8	7 X ϕ 1.2	21.5	400
8-Fiber Ribbone					
URAPGSxx	6	10	7 X ϕ 1.2	21.5	400

Strength Short/Long Term: 600/1500 N

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

Note:

4-fibre ribbons are applied in the cable with fiber count under 300 while 8-fibre or 12-fibre ribbons are applied in the cable with fiber count over 300.

URAPGSXX



Mechanical and Environmental Performance

Item	Test Methods	Acceptance Criteria
Tensile	GB/T 7425.2 Cable length: ≥50 m Load force: 1500 N Tension speed: 10mm/min Duration: 1 min.	Being subjected to tension, the induced attenuation shall not exceed 0.20 dB. Being freed from tension, the fiber shows no residual induced attenuation and strain.
Crush	GB/T 7425.3 Load force: 1000 N Duration: 1 min.	The induced attenuation shall not exceed 0.10 dB. Being freed from tension, the fiber shows no residual induced attenuation
Impact	GB/T 7425.4 Hammer weight: 450 g Drop weight of hammer: 1m Impact: at least 5 times	Being freed from impact force, the fiber shows no residual induced attenuation.
Repeated Bending	GB/T 7425.5 Load force: 150 N Bending: 30 times	The fiber shows no residual induced attenuation. The cable doesn't show any damages.
Torsion	GB/T 7425.6 Axial strain: 150 N Torsion length: 1m Torsion angle: ±180° Torsion: 10 times	The fiber shows no residual induced attenuation. The cable doesn't show any damages.
Temp. Cycling	GB/T 8405.2 Temperature extremes: -40°C~+60°C Cycling: 2 times	The fiber shows no residual induced attenuation.
Water Ingress	GB/T 8405.4 L water device (single steel wire)/ T water device (steel rope) 1 m high water column 3 m cable 24 hours	No water ingress