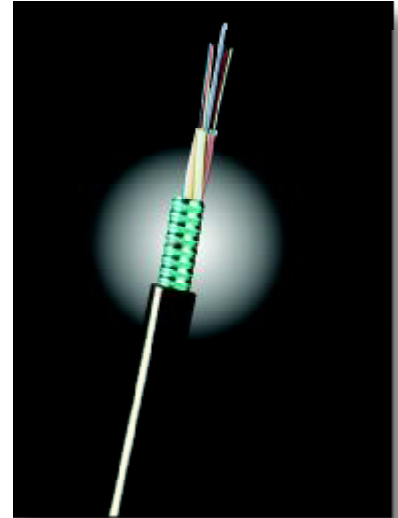


Stranded Loose Tube Cable with Steel Tape (GYTS)

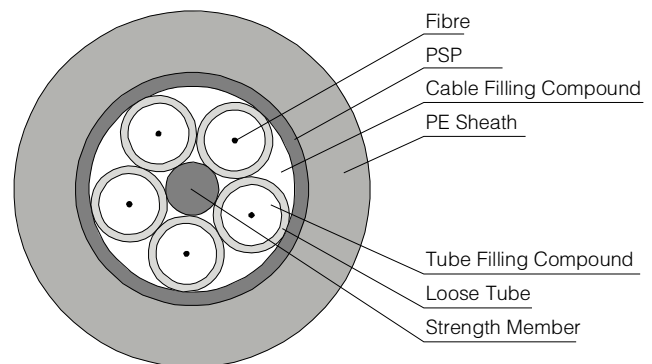
Description

In the GYTS cable, single-mode/multimode fibres are positioned in the loose tubes, which are made of high modulus plastic materials, while the loose tubes strand together around metallic central strength member into a compact and circular cable core. For certain high fibre count cables, the strength member would be covered with polyethylene (PE). The water-blocking materials are distributed into interstices of the cable core, and the PSP is longitudinally applied around the cable core before a PE sheath is extruded over it.



Characteristics

- Excellent mechanical and temperature performance guaranteed by the accurate excess fibre length
- Critical protection to fibres, based on the excellent hydrolysis resistance and strength performance of tube material and special filling compound filled in the tube
- Excellent crush resistance and flexibility
- Excellent ultraviolet prevention with PE sheath
- The following measures are taken to ensure the water blocking performance of the cable:
 - Single steel wire used as the central strength member
 - Special water-blocking filling compound in the loose tube
 - 100% cable core filling
 - PSP moisture barrier



Storing temperature: -40°C to +70°C
 Operating temperature: -40°C to +70°C
 Bending radius: Static 10 × D
 Dynamic 20 × D

Application: Duct/Aerial

Stranded Loose Tube Cable with Steel Tape (GYTS)

Cable Type (increased by 2 fibres)	Fibre Count	Tubes + Fillers	Max. No. of Fibres in Tube	Cable Diameter mm	Cable Weight kg / km	Tensile Strength Long/Short Term N	Crush Resistance Long/Short Term N / 100 mm
GYTS-2~30Xn	2 ~ 30	5	6	9.8	108	600/1500	300/1000
GYTS-32~36Xn	32 ~ 36	6	6	10.4	129	600/1500	300/1000
GYTS-38~60Xn	38 ~ 60	5	12	10.6	132	600/1500	300/1000
GYTS-62~72Xn	62 ~ 72	6	12	12.1	161	600/1500	300/1000
GYTS-74~96Xn	74 ~ 96	8	12	13.6	198	600/2000	300/1000
GYTS-98~120Xn	98 ~ 120	10	12	15.4	260	600/2500	300/1000
GYTS-122~144Xn	122 ~ 144	12	12	17.2	286	600/2500	300/1000

Note:

- 1.Suffix Xn denotes fibre type and see details in YOFC cable coding illustration.
- 2.The colour arrangement of fibre and tube is specified in colour identification table.
- 3.The normal PE sheath thickness is 1.8mm.

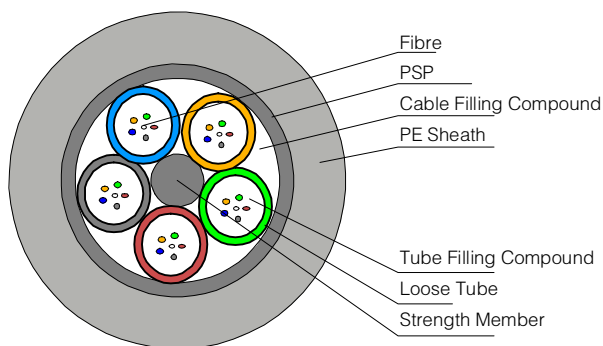


Figure 1 GYTS-30Xn

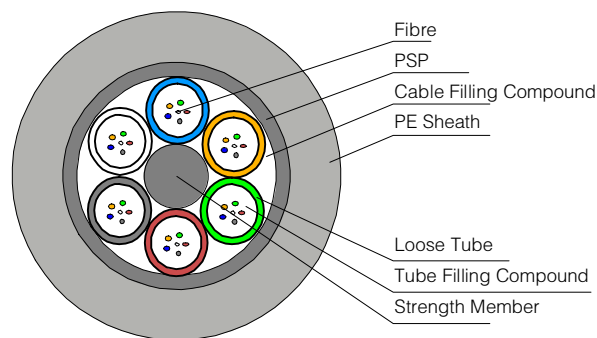


Figure 2 GYTS-36Xn

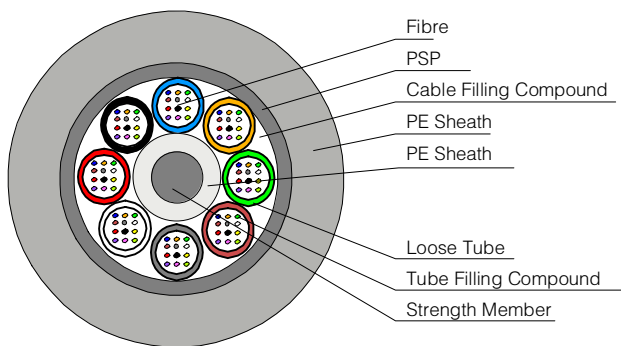


Figure 3 GYTS-96Xn

MaxBand® OM2+/OM3/OM4 Multimode Fibre

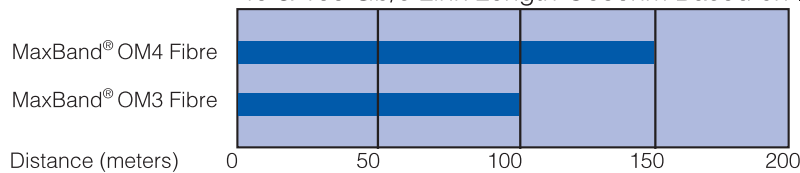
YOFC® MaxBand® OM2+ Multimode Fibre complies with or exceeds ISO/IEC 11801 OM2 specification, IEC 60793-2-10 type A1a.1 Optical Fibre Specification, and TIA/EIA-492AAAB-A detail specification.

YOFC® MaxBand® OM3/OM4 Multimode Fibres comply with or exceed ISO/IEC 11801 OM3/OM4 specification, IEC 60793-2-10 type A1a.2 and A1a.3 Optical Fibre Specification, and TIA/EIA-492AAAC/492AAAD detail specification.

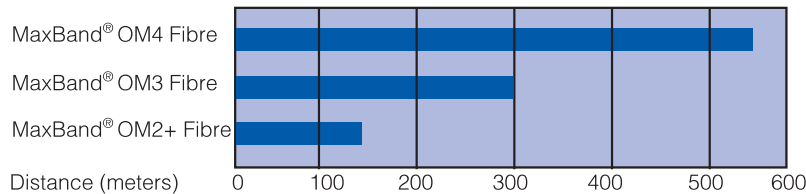
Features	Benefits and Applications
<ul style="list-style-type: none"> - 850nm laser-optimized - Extremely refined refractive index profile - Low differential mode delay (DMD) - Low attenuation - Superior geometry, uniformity 	<ul style="list-style-type: none"> - Data centers - Storage Area Networks - High performance computing centers - Central offices - Local Area Networks - 1 & 10 & 40 & 100 Gb/s Ethernet
<ul style="list-style-type: none"> - Coated with YOFC's proprietary dual layer UV curable acrylate 	<ul style="list-style-type: none"> - Optimized performance in tight-buffer cable applications - High resistance to micro-bending - Stable performance over a wide range of environmental conditions

System Link Length

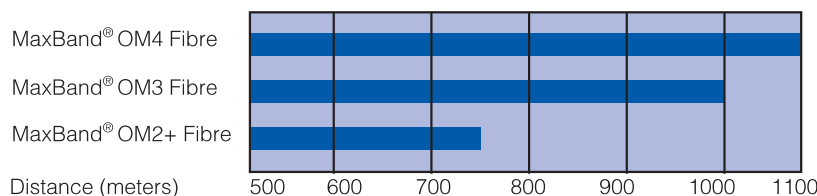
40 & 100 Gb/s Link Length @850nm Based on IEEE802.3ba



10 Gb/s Link Length @850nm Based on IEEE802.3ae



1 Gb/s Link Length @850nm Based on IEEE802.3z



MaxBand® OM2+/OM3/OM4 Multimode Fibre

Characteristics	Conditions	Specified Values	Units
Geometry Characteristics			
Core Diameter		50 ± 2.5	[µm]
Core Non-Circularity		≤ 5.0	[%]
Cladding Diameter		125.0 ± 1.0	[µm]
Cladding Non-Circularity		≤ 1.0	[%]
Coating Diameter		245 ± 7	[µm]
Coating/Cladding Concentricity Error		≤ 10.0	[µm]
Coating Non-Circularity		≤ 6.0	[%]
Core/Cladding Concentricity Error		≤ 1.0	[µm]
Delivery Length		Up to 8.8	[km/reel]
Optical Characteristics			
Attenuation	850nm	≤ 2.4	[dB/km]
	1300nm	≤ 0.6	[dB/km]
MaxBand® OM2+/OM3/OM4			
Overfilled Modal Bandwidth	850nm	≥ 700/≥ 1500/≥ 3500	[MHz · km]
	1300nm	≥ 500/≥ 500/≥ 500	[MHz · km]
Effective Modal Bandwidth	850nm	≥ 950/≥ 2000/≥ 4700	[MHz · km]
Application support distance on			
40 & 100 Gigabit Ethernet	850nm	~100/150	[m]
10GBASE-SR	850nm	150/300/550	[m]
1000BASE-SX	850nm	750/1000/1100	[m]
DMD Specification	Compliant with and more stringent than the requirements of IEC 60793-2-10		
Numerical Aperture		0.200 ± 0.015	
Group Refractive Index	850nm	1.482	
	1300nm	1.477	
Zero Dispersion Wavelength, λ_0		1295-1340	[nm]
Zero Dispersion Slope, S_0	1295nm ≤ λ_0 ≤ 1310nm	≤ 0.105	[ps/(nm ² · km)]
	1310nm ≤ λ_0 ≤ 1340nm	≤ 0.000375(1590 - λ_0)	[ps/(nm ² · km)]
Macrobending Loss			
100 Turns @ 37.5mm Radius	850nm	≤ 0.50	[dB]
	1300nm	≤ 0.50	[dB]
2 Turns @ 15 mm Radius	850nm	≤ 1.0	[dB]
	1300nm	≤ 1.0	[dB]
Backscatter Characteristics			
Step (Mean of Bidirectional Measurement)	1300nm	≤ 0.10	[dB]
Irregularities Over Fibre Length and Point Discontinuity		≤ 0.10	[dB]
Attenuation Uniformity		≤ 0.08	[dB/km]
Environmental Characteristics			
Temperature Cycling	-60°C to +85°C	≤ 0.10	[dB/km]
Temperature-Humidity Cycling	-10°C to +85°C, 4% to 98% RH	≤ 0.10	[dB/km]
Water Immersion	23°C, 30 days	≤ 0.10	[dB/km]
Dry Heat	85°C, 30 days	≤ 0.10	[dB/km]
Damp Heat	85°C, 85% RH, 30 days	≤ 0.10	[dB/km]
Mechanical Specification			
Proof Test		≥ 9.0	[N]
		≥ 1.0	[%]
		≥ 100	[kpsi]
Coating Strip Force	typical average force	1.5	[N]
	peak force	≥ 1.3 ≤ 8.9	[N]
Dynamic Stress Corrosion Susceptibility Parameter (n_d , typical)		27	