

GYTDA RIBBON OUTDOOR CABLE

Cable Description

GYTDA belongs to optical ribbon cable which featured with intensive fiber, small diameter, light weighted. Several ribbons form the cable which save space and easy to identify. It is widely used in trunk line of access network.

Quality

We ensures a continuing level of quality in our cable products through several quality control programs including ISO 9001 and all the materials have passed REACH and ROHS.

Optical Fiber Characteristics G652D

ltem	Construction			
Mode field diameter	At 1310nm	9.2±0.4μm		
	At 1550nm	10.5±1.0μm		
Cladding diameter		125±1µm		
Core concentricity error		≤0.5µm		
Cladding non-circularity		≤1.0%		
Primary coating diameter		245±10μm		
Primary coating non-circularity		≤6.0%		
Primary coating-cladding concentricity error		≤12µm		
Cut-off wavelength (λcc) (for cable)		≤1260nm		
Cut-off wavelength (λc) (for fiber)		1180nm~1330nm		
Brimary coating diamator	(Not included color layer)	245±10μm		
Primary coating diameter	(Included color layer)	250±15μm		
Coating-cladding concentricity error	≤12.5µm			
Fiber curl radius	≥4m			

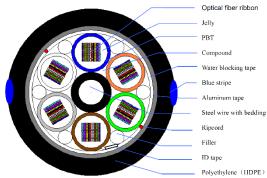
Transmission characteristics

	Item	Performance
	At 1310nm(cabled)	≤0.36dB/km
Attenuation	At 1310nm(before cable)	≤0.33dB/km
Attenuation	At 1550nm(cabled)	≤0.22dB/km
	At 1550nm(before cable)	≤0.20dB/km
Magra handing loss	Φ=25mm, 100turns at 1310 & 1550nm	≤0.05dB
Macro bending loss	Φ=30mm, 100turns at 1625nm	≤0.05dB
Classicatio	Within 1288~1339nm	≤3.5ps/nm·km
Chromatic	At 1550nm	≤18ps/nm·km
dispersion	At 1625nm	≤22ps/nm·km
Zero dispersion wavelength		1300~1324nm
Zero dispersion slope		$\leq 0.092 \text{ps/nm}^2 \cdot \text{km}$

Cross Section:

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Dimension (

Amount. of fiber	Max. fiber per tube	No. of tube positions	No. of active tubes	Nom. thickness of sheath	Diameter (Appr.)	Weight (Appr.)
inder	tube	positions	tubes	mm	mm	kg/km
192	12*8	5	2	2.3	24.2	471.0
288	12*8	5	3	2.3	24.2	459.0
384	12*8	5	4	2.3	24.2	454.0
432	12*8	5	5	2.3	24.2	444.0
576	12*8	6	6	2.3	26.2	511.0

*Note: The minimum thickness of the sheath is 2.0mm.

Coding



Ribbon identification

Ribbon		Fiber No.										
No.	1	2	3	4	5	6	7	8	9	10	11	12
1	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
2	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
3	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
4	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
5	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
6	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
7	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua
8	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

Loose tube identification

Position	Tube color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White

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Product specification, design and availability subject to change without prior notice



Reference

The cable which Our offering are designed, manufactured and tested according to international standards as follows:

NO	ITEM	TEST METHOD	SPECIFICATION
1	Tensile performance IEC60794-1-21-E1	-Short-term load: 2700N - Time: 5 minute	Loss change ≤ 0.10 dB@1550 nm (after test) - Fiber strain ≤ 0.6 % - No sheath damage
2	Crush test IEC60794-1-21-E3	- Load: 2000 N /100mm - Time: 5 minute - Length: 100 mm	Loss change ≤ 0.10 dB@1550 nm (after test) - No sheath damage
3	Impact test IEC60794-1-21-E4	 Impact hight:1m Impact weight:0.45kg Points of impact: 3 Times of per point: 2 	Loss change ≤ 0.10 dB@1550 nm (after test) - No sheath damage
4	Repeated bending IEC60794-1-21-E6	 Bending radius.: 20 × D Load: 250N Flexing rate: 2sec/cycle No. of cycle: 25 	- No fiber break - No sheath damage
5	Water penetration IEC60794-1-22-F5	- Height of water: 1m - Sample length: 3 m - Time: 24 hr	- No drip through the cable core assembly
6	Twist IEC60794-1-21-E7	- Length: 1 m - Load: 250N - Twist rate: ≤60sec/cycle - Twist angle: ±180° - No. of cycle: 5	-Loss change ≤ 0.10 dB@1550 nm (after test) - No sheath damage
7	Temperature Cycling IEC60794-1-22-F1	 Temperature step: +20°C→-40°C→+70°C→+20°C Number of cycle: 2 turns Time per each step: 12 hrs 	- Loss change ≤ 0.15 dB@1550 nm (after test) - No sheath damage

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