



Ribbon, Single-Jacket, Single Armor Dry Core, Central Tube - GYFDXTS

Wasin Fujikura® armored central tube ribbon cable is designed for direct buried, duct and aerial applications. Available from 12-count to 432-count and is suitable for a variety of system configurations. One single loose tube, made of PBT, consists of 12-fiber ribbons stacked in a compact structure in order to reduce fiber movement. This design frees fibers from environmental hazards and ensures high transmission reliability and quality as the ribbon stack acts as a single unit. Dry Core indicates there is water-blocking gel in the loose tube and water-blocking tape wrapping around the loose tube. The structure of the cable is reinforced with single armor: corrugated steel tape, providing protection against crush and rodents. The structure of the cable is additionally reinforced with two FRP strength members located symmetrically under the cable jacket which provide considerable tensile strength. Easy to strip with two ripcords under the armor. The jacket is rugged and durable medium density polyethylene.

▪Central Tube Ribbon fiber

Compact Structure, reduced movement

▪Water Blocking Technology

Craft-friendly cable preparation, fully water-blocked.

▪Polyethylene Jacket (MDPE)

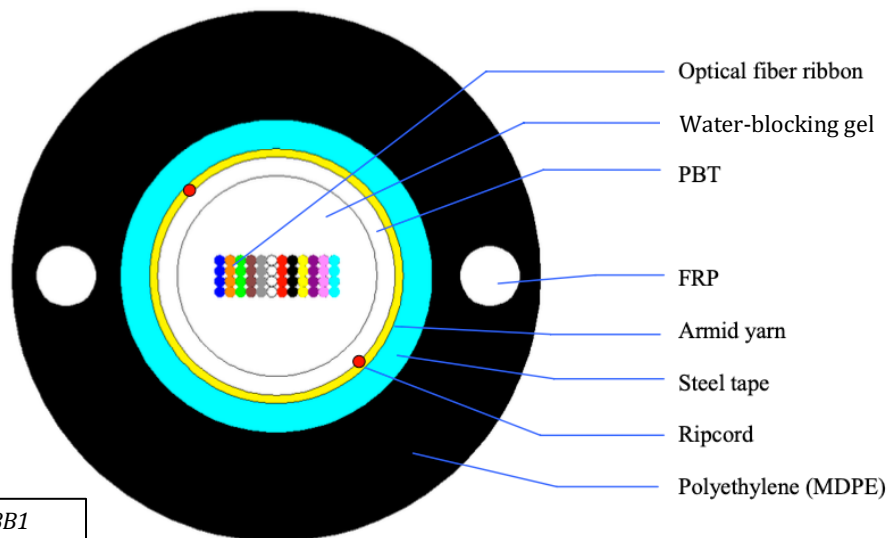
Rugged, durable and easy to strip while providing superior protection against UV radiation, fungus, abrasion, and other environmental factors

▪High Transmission reliability and quality

▪Single Armor: extra protection against crush and rodents

▪Ripcords: easy to strip; maintains symmetry of jacket

Cable Design	
Preform glass	Fujikura
Fiber Type	G.652D
Strength members	FRP
Water Blocking, Buffer Tube	Gel
Loose Tube	PBTP
Binder & Wrapping	Aramid yarn
Armor Tape	Corrugated Steel
Ripcords	2
Outer Sheath	MDPE



Fiber Count	Ribbons Per Tube	Fibers Per Ribbon	Cable, Nominal Outer Diameter		Cable, Nominal Weight	
			Inches	mm	Lbs./1000ft	kg/km
12-48	1-4	12	0.49	12.4	91	136
72	6	12	0.50	12.6	95	141
96	8	12	0.51	13.0	100	149
144	12	12	0.56	14.1	116	173
288	12	24	0.74	18.8	183	272
432	18	24	0.80	20.4	216	321

*Note: Minimal thickness of sheath is 2.8mm



FIBER CHARACTERISTICS- G.652D

The single mode, gel-free fiber optic cable complies with the requirements of this specification and generally meet any latest relevant ITU-T Recommendation G.652D, the IEC60793-2-50 type B1.3 and the TIA-472E000 type IVa Optical Fiber Specification. All optical and geometrical parameters are checked to ensure that they meet or exceed industry specifications:

GEOMETRIC CHARACTERISTICS

Geometric Characteristics		Construction
Mode field diameter	1310nm	9.2±0.4μm
Cladding diameter		125±0.7μm
Core concentricity error		≤0.5μm
Cladding non-circularity		≤1.0%
Cut-off wavelength (λ_{cc}) (for cable)		≤1260nm
Cut-off wavelength (λ_{cc}) (for fiber)		1180nm –1330nm
Primary coating diameter	(Color layer not included)	245±10μm
	(Color layer included)	250±15μm
Coating-cladding concentricity error		≤12.5μm
Fiber curl radius		≥4m

TRANSMISSION CHARACTERISTICS

Transmission Characteristics		Performance
Attenuation	1310nm	≤0.36dB/km
	1550nm	≤0.25dB/km
Macro bending loss	Φ=60mm, 100 turns at 1550nm	≤0.1dB
Chromatic dispersion	Within 1288~1339nm	≤3.5ps/nm·km
	1550nm	≤18ps/nm·km
Zero dispersion wavelength		1300~1324nm
Zero dispersion slope		≤0.092ps/nm ² ·km

COMPLIANCE STANDARDS

Design and Test Criteria	ANSI/ICEA S-87-640	Telcordia GR-20
--------------------------	--------------------	-----------------

TENSILE STRENGTH

	Short-Term Load	Long-Term Load
GYFDXTS	2700N	890N

MINIMUM BEND RADIUS

	Installation	Operation
GYFDXTS	20D	10D

TEMPERATURE RANGE

	Storage	Installation	Operation
GYFDXTS	-40°F to 158 °F	-22°F to 158 °F	-40°F to 158 °F

FIBER COLOR CODE



Position	Fiber Color
1	Blue
2	Orange
3	Green
4	Brown
5	Grey
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua
13	Blue
14	Orange with black ring
15	Green with black ring
16	Brown with black ring
17	Grey with black ring
18	White with black ring
19	Red with black ring
20	Black with white ring
21	Yellow with black ring
22	Violet with black ring
23	Pink with black ring
24	Aqua with black ring

*Compliant with TIA/EIA-598, "Optical Fiber Cable Color Coding."

CENTRAL TUBE COLOR CODE

Position	Loose Tube Color
1	White

SHEATH MARKING



CABLE & LENGTH MARKING

The sheath shall be marked with white characters at intervals of one meter with following information. Other marking is also available if requested by customer.

- 1) Name of the manufacturer: "NWF"
- 2) Year of manufacture: "2022"
- 3) Fiber type and counts: "GYFDXTS-144B1"
- 4) Customer Name, Contact #
- 5) Length marking in one feet or one meter intervals: "xxxxxf"