

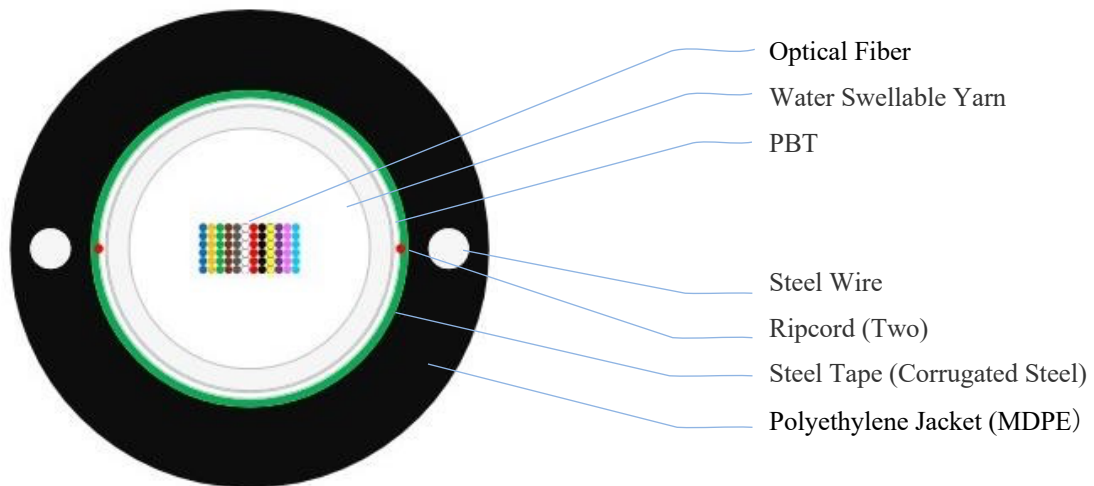


Ribbon, Single-Jacket, Single Armor, Gel Free, Central Tube - GYDXW

GYDXW is a single armored central tube ribbon cable designed for direct buried, duct and aerial applications. Available from 72-count to 144-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.

- **Central Tube Ribbon fiber**
Compact Structure, reduced movement
- **Water Blocking Technology**
Craft-friendly cable preparation, fully dry water-blocked.
- **Steel Wire:** Embed in outer sheath
- **Steel Tape:** Protection layer
- **Polyethylene Jacket (MDPE)**
Rugged, durable and easy to strip while providing superior protection environmental factors
- **High Transmission** reliability and quality
- **Ripcords:** 2 polyester, under each sheath, easy to strip; maintains symmetry of jacket

Cable Design	
Preform glass	Fujikura
Fiber Type	G652D
Strength members	Steel
Water Blocking, Buffer Tube	Yarn
Loose Tube	PBTP
Binder & Wrapping	Steel Tape
Ripcords	2
Outer Sheath	MDPE

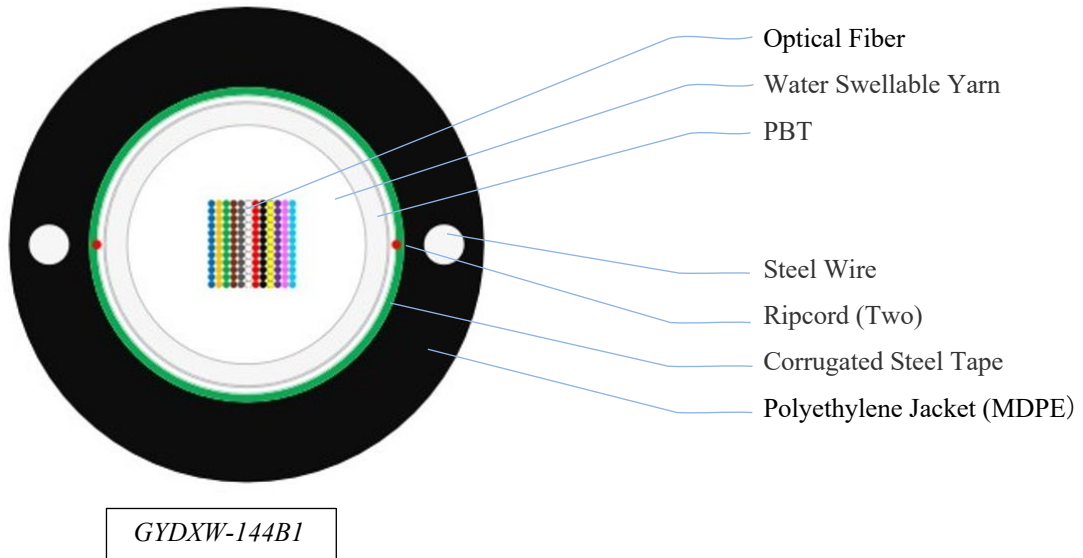


GYDXW-72B1

Fiber Count	Ribbons Per Tube	Fibers Per Ribbon	Steel Wire*2	Thickness of Outer Sheath	Cable, Nominal Outer Diameter
			Inches (mm)	Inches (mm)	Inches (mm)
72	6	12	0.059 (1.5)	0.12 (3.0)	0.591 (15.0)
96	8	12	0.059 (1.5)	0.12 (3.0)	0.591 (15.0)
144	12	12	0.059 (1.5)	0.12 (3.0)	0.677 (17.2)

TENSILE STRENGTH

GYDXW	2700N (600 lbs.)
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FIBER CHARACTERISTICS- G.652D

The single mode, gel-free fiber optic cable complies with the requirements of this specification and meet 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:

STANDARDS

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

Test	Specified Value	Acceptance Criteria
Tensile IEC 60794-1-21, E1	2700 N	$\Delta\alpha \leq 0.05$ dB, no sheath damage
Crush IEC 60794-1-21, E3	2000 N/10cm	$\Delta\alpha \leq 0.05$ dB, no sheath damage
Impact IEC 60794-1-21, E4	4.5 J	$\Delta\alpha \leq 0.05$ dB, no sheath damage
Repeated Bending IEC 60794-1-21, E6	R=30D, 25 cycles	$\Delta\alpha \leq 0.05$ dB, no sheath damage
Torsion IEC 60794-1-21, E7	1m, 10 cycles, $\pm 180^\circ$	$\Delta\alpha \leq 0.05$ dB, no sheath damage
Temperature Cycling IEC 60794-1-22, F1	2 cycles, $-40 \sim +70^\circ\text{C}$	$\Delta\alpha \leq 0.15$ dB/km, no sheath damage
Water Penetration IEC 60794-1-22, F5	3m sample, 1m height, 24 h	No water leakage

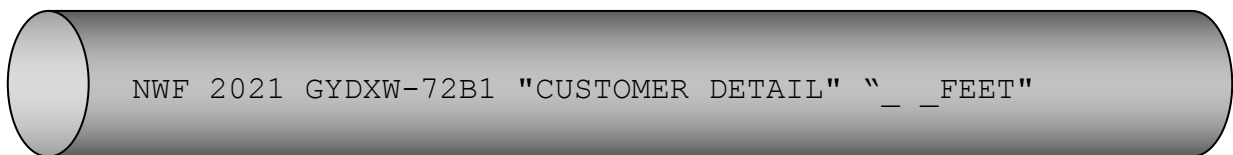
FIBER PERFORMANCE

Characteristics		Acceptance Value
Attenuation	@1310nm	≤0.36 dB/km
	@1383nm	≤0.36 dB/km
	@1550nm	≤0.25 dB/km
Mode field diameter (MFD)	@1310nm	9.2±0.6 μm
	@1550nm	10.5±1.0 μm
Chromatic dispersion coefficient	1288~1339nm (absolute value)	≤3.5 ps/(nm·km)
	1271~1360nm (absolute value)	≤5.3 ps/(nm·km)
	@1550 nm	≤18 ps/(nm·km)
Zero-dispersion wavelength		1300nm~1324 nm
Zero-dispersion slope		≤0.092 ps/(nm ² ·km)
Cable cut-off wavelength λ _{cc} (nm)		≤1260 nm
Polarization mode dispersion (PMD, for fiber on the reel)		≤0.20 ps/km ^{1/2}
Cladding diameter		125±1.0 μm
Cladding non-circularity		≤1.0 %
Core/cladding concentricity error		≤0.6 μm
Proof test		≥0.69 GPa (100kpsi)

COLOR CODE – FIBER & LOOSE TUBE



SHEATH MARKING



CABLE & LENGTH MARKING

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

- 1) Name of the manufacturer: "NWF"
- 2) Year of manufacture: "2021"
- 3) Fiber type and counts: "GYDXW-72B1"
- 4) Customer Name, Contact #
- 5) Length marking in one foot or one-meter intervals: "x×x×f"

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