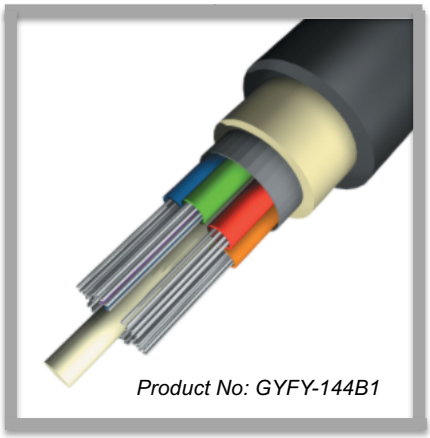
Loose Tube, Gel-Free, Single-Jacket Non-Armored Fiber Optic Cable

Wasin Fujikura® stranded, loose tube, all dielectric, gel-free cable is designed for aerial and duct installation. Available from 2-count to 432-count, this cable is suitable for a variety of system configurations.

The loose tube frees the fibers from environmental hazards to ensure a high transmission reliability and quality. Gel-free indicates there are water-blocking yarns in the loose tubes and water-blocking tape under the outer sheath, meaning no mess or cleanup. In addition, all dielectric cable contains no metal; therefore, no grounding is required. The jacket is rugged and durable medium density polyethylene.



Product No: GYFY-144B1

Features and Benefits

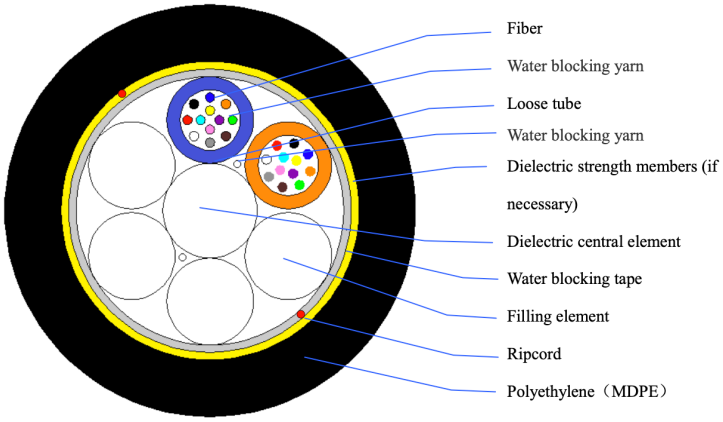
- **Gel-free water blocking technology**
  Craft-friendly cable preparation, fully water-blocked
- **Medium-density polyethylene jacket**
  Rugged, durable and easy to strip while providing superior protection against UV radiation, fungus, abrasion, and other environmental factors
- **Dielectric structure/Strength element**
  Lightweight, easy installation, good electromagnetic resistance, Aramid Yarn for dielectric strength element.
- **Loose buffer tube stranding**
  The loose buffer tubes are stranded around a dielectric central strength member using the reverse oscillating lay standing technique

Cable Design	
Optical Fiber	Fujikura Preform
Moisture Proof Filler	Water-Blocking Tape
Central Strength Member	FRP
Water Blocking, Buffer Tube	Aramid Yarn SAP
Loose Buffer Tube Sheath	PBT
Binder & Wrapping	Polyester Yarn
Outer Jacket Sheath	MDPE
Ripcord	Two
Water Blocking, Cable	Aramid Yarn SAP

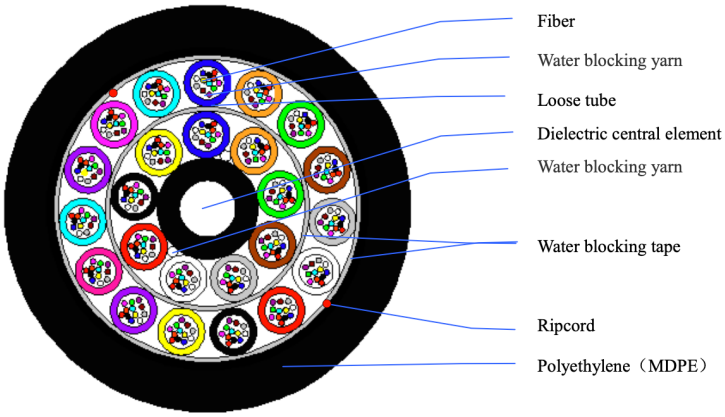
Fiber Count	Maximum Fiber Per Tubes	Number of tube Positions	Number of Active Tubes	Nominal Overall Diameter		Nominal Weight	
				Inches	mm	Lbs./1000ft	Kg/km
02-72	12	6	1-6	0.39	10.0	57	85
74-96	12	8	7-8	0.44	11.2	75	112
98-120	12	10	9-10	0.53	13.5	90	134
122-144	12	12	11-12	0.55	14.0	112	167
146-216	12	18	13-18	0.58	14.6	118	175
218-288	12	24	19-24	0.65	16.6	157	233
432	12	36	30-36	0.76	19.2	202	300

** Dielectric strength members, available upon request*

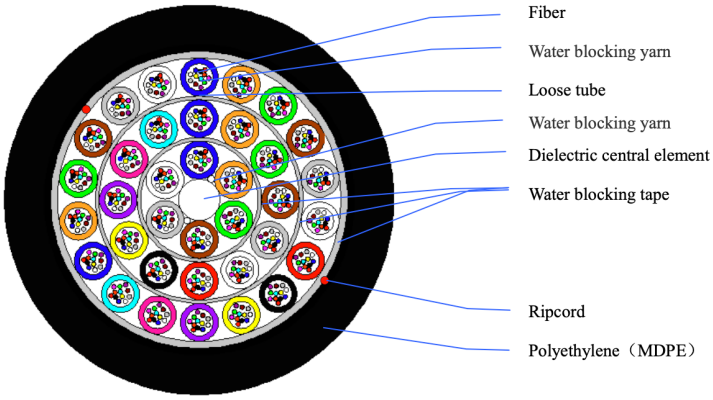
CROSS SECTION



Product No: GYFY-024B1



Product No: GYFY-288B1



Product No: GYFY-432B1

FIBER CHARACTERISTICS

Wasin Fujikura® G.652D fiber complies with or exceeds the ITU-T Recommendation G.652D, IEC60793-2-50 type B1.3 and the TIA-472E000 type IVa Optical Fiber Specification.

Wasin Fujikura® G.657A1 fiber complies with or exceeds the ITU-T Recommendation G.657A1and IEC60793-2-50 type B6a1.

COMPLIANCE STANDARDS

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

TENSILE STRENGTH

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

MINIMUM BEND RADIUS

	Installation	Operation
GYFY	20D	10D

TEMPERATURE RANGE

	Storage	Installation	Operation
GYFS (2-288 fibers)	-40 ºC to 70 ºC (-40ºF to 158 ºF)	-30 ºC to 70 ºC (-22ºF to 158 ºF)	-40 ºC to 70 ºC (-40ºF to 158 ºF)
GYFS (432 fibers)	-20 ºC to 70 ºC (-4ºF to 158 ºF)	-10 ºC to 70 ºC (14ºF to 158 ºF)	-20 ºC to 70 ºC (-4ºF to 158 ºF)

OPTICAL CHARACTERISTICS

Fiber Category			G.652D
Attenuation	Maximum attenuation (cabled)	1310nm	≤0.36dB/km
		1550nm	≤0.25dB/km
	Typical attenuation (bare fiber)	1310nm	≤0.34dB/km
		1550nm	≤0.20dB/km

**For more information on typical attenuation please see the optical fiber specifications*

Fiber Category			G.657A1
Attenuation	Maximum attenuation (cabled)	1310nm	≤0.36dB/km
		1550nm	≤0.25dB/km
	Typical attenuation (bare fiber)	1310nm	≤0.34dB/km
		1550nm	≤0.20dB/km

**For more information on typical attenuation please see the optical fiber specifications*

COLOR CODE

Fiber Color Code

Fiber Color	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua

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

Loose Tube Color Code

2-144core	1	2	3	4	5	6	7	8	9	10	11	12
Layer 1	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow	Violet	Pink	Aqua

146-216core	1	2	3	4	5	6						
Layer 1	Blue	Orange	Green	Brown	Gray	White						
Layer 2	7	8	9	10	11	12	13	14	15	16	17	18
	Red	Black	Yellow	Violet	Pink	Aqua	Blue w/ Black tracer	Ora. w/ tracer	Green. w/ tracer	Brown. w/ tracer	Grey. w/ tracer	White. w/ tracer

218-288core	1	2	3	4	5	6	7	8	9
Layer 1	Blue	Orange	Green	Brown	Gray	White	Red	Black	Yellow
Layer 2	10	11	12	13	14	15	16	17	18
	Violet	Pink	Aqua	Blue w/ Black tracer	Ora. w/ Black tracer	Green. w/ Black tracer	Brown. w/ Black tracer	Grey. w/ Black tracer	White. w/ Black tracer
	19	20	21	22	23	24			
	Red. w/ Black tracer	White w/ Red tracer	Yellow w/ Black tracer	Violet w/ Black tracer	Pink w/ Black tracer	Aqua w/ Black tracer			

432core	1	2	3	4	5	6						
Layer 1	Blue	Orange	Green	Brown	Grey	White						
	7	8	9	10	11	12	13	14	15	16	17	18
Layer 2	Red	Black	Yellow	Violet	Pink	Aqua	Blue w/ black tracer	Orange w/ black tracer	Green w/ black tracer	Brown w/ black tracer	Grey w/ black tracer	White w/ black tracer
Layer 3	19	20	21	22	23	24	25	26	27	28	29	30
	Red w/ black tracer	White w/ red tracer	Yellow w/ black tracer	Violet w/ black tracer	Pink w/ black tracer	Aqua w/ black tracer						
	31	32	33	34	35	36						
	Red w/ double black tracer	White w/ double red tracer	Yellow w/ double black tracer	Violet w/ double black tracer	Pink w/ double black tracer	Aqua w/ double black tracer						

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) Name of customer and contact detail
4) Fiber type and counts: "GYFY-144B1"
5) Length marking in one meter (or one foot) intervals: "××××m" or "××××f"