UNI-TUBE MIDSPAN CABLE · G.657A1

24 / 48 F
MIDSPAN

MODEL **UNI-TUBE**

Uni-tube midspan/breakout indoor cable, 24 or 48 buffered fibres in one LSZH tube, aramid yarn strength member.

FIBRES	FIBRE TYPE
24 / 48	**G.657A1**
JACKET	REEL
LSZH YELLOW	**1,000 m**



01 OVERVIEW

Scope & cable construction

The ZY-GJFJH uni-tube midspan cable packs 24 or 48 colour-coded 900 µm tight-buffered fibres into a single LSZH tube. Aramid yarn carries the tensile load and the flame-retardant LSZH jacket keeps the cable suitable for indoor riser and patch-panel runs, where individual fibres are broken out at intermediate points (midspan access).

CONSTRUCTION

- 900 µm tight-buffered fibres, colour coded in groups of 12.
- Aramid yarn 1670 Dtex as strength member.
- LSZH, flame-retardant outer jacket, yellow.
- Fibre groups identified by transverse stripes on the buffer.
- Suitable for midspan breakout without cutting the whole cable.

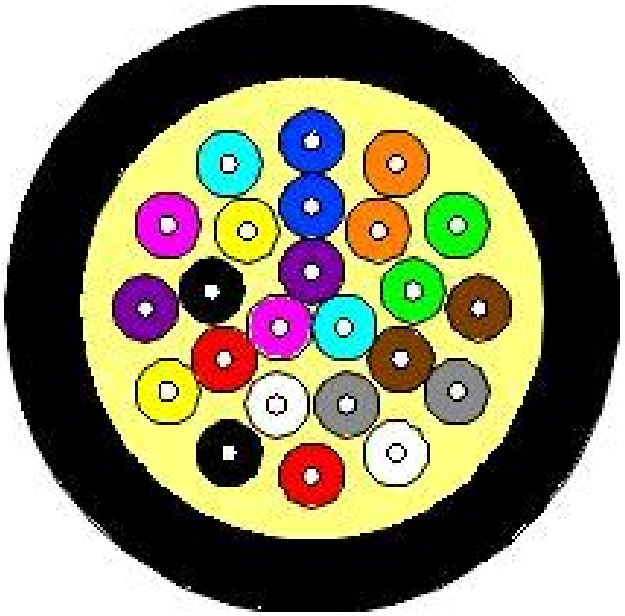


FIG. 1 Uni-tube cable cross-section — 24 fibres in one tube

02 CONSTRUCTION DATA

Cable construction & dimensions

ITEM	ZY-GJFJH-24B6a1	ZY-GJFJH-48B6a1
Fiber count	24 C	48 C
Configuration	2 groups, 12 F/group	4 groups, 12 F/group
Optical fiber	ITU-T G.657A1	ITU-T G.657A1
Loose tube	900 μm LSZH	900 μm LSZH
Strength member	Aramid yarn 1670 Dtex	Aramid yarn 1670 Dtex
Outer jacket	LSZH, flame retardant	LSZH, flame retardant
Colour	Yellow	Yellow
Cable diameter	8.3 ± 0.5 mm	10.3 ± 0.2 mm
Tensile strength	800 N	1,000 N
Crush resistance	1,000 N	1,000 N
Cutting length	1,000 m/reel	1,000 m/reel

03 IDENTIFICATION

Fibre colour code

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

12-fibre colour code

GROUP / TUBE IDENTIFICATION

- 1st group (1F - 12F): no transverse stripe on the buffer.
- 2nd group (13F - 24F): 1 transverse stripe.
- 3rd group (25F - 36F): 2 transverse stripes.
- 4th group (37F - 48F): 3 transverse stripes.



24 buffered fibres broken out of the tube



Cable on a wooden drum, 1,000 m per reel

04 FIBRE PERFORMANCE

ITU-T G.657A1

PARAMETER	SPECIFICATION
Attenuation @ 1310 nm	≤ 0.360 dB/km before / ≤ 0.40 dB/km after
Attenuation @ 1383 nm	≤ 0.340 dB/km before / ≤ 0.40 dB/km after
Attenuation @ 1550 nm	≤ 0.250 dB/km before / ≤ 0.30 dB/km after
Attenuation @ 1625 nm	≤ 0.260 dB/km before / ≤ 0.30 dB/km after
Zero-dispersion wavelength	1300 - 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm²·km)
Cable cut-off wavelength	≤ 1260 nm
Macro-bending loss — 1 turn, Ø 20 mm	≤ 0.75 dB @ 1550 nm / ≤ 1.5 dB @ 1625 nm
Macro-bending loss — 10 turns, Ø 30 mm	≤ 0.25 dB @ 1550 nm / ≤ 1.0 dB @ 1625 nm
Mode field diameter @ 1310 nm	8.6 ± 0.4 µm
Cladding diameter	125 ± 0.7 µm
Cladding non-circularity	≤ 1.0 %
Core / clad concentricity error	≤ 0.5 µm
Proof stress	0.69 GPa

05 PACKING

- 1,000 m per reel, wooden drum.
- Drum sealed and protected for transport.
- Cable ends sealed; test report on the drum flange.



Cable on a wooden drum, 1,000 m per reel

ZUOYEAL

ZUOYEAL TECHNOLOGY

Connecting More, With Fiber

www.zuoyealoptic.com · trade@zuoyeal.com

This datasheet describes the uni-tube midspan cable 24/48 F at the time of publication. Dimensions and configurations may change without notice; confirm current values with ZUOYEAL before ordering.

24 / 48 F · G.657A1 · LSZH

Connecting More, With Fiber