



Datasheet for AFL Reinforced Furcation Tubing – Two Fiber

Description (DZELZJ*BZZ)

Aramid reinforced dual layer Furcation tubing with Low Smoke Zero Halogen (LSZH) outer tube, aramid yarn and Hytrel 7246 inner tube.

Manufacturer SHENZHEN YOUNGSUN

Applications

- Connectivity where protection of TWO 250µm optical fiber is required
- For use in directly connectorized assemblies
- Ideal for use with Fan-Out kits

Features

- Dual layer construction
- Aramid strength members for tensile resistance
- LSZH jacket for use in racks and cabinets
- LSZH jacket available in 12 standard colors on request



Specification

Parameter	Unit	Value
Storage, transportation and operating temperature	°C	-20 to 60
Installation temperature	°C	0 to 50
Outer Jacket Outside Diameter	mm	2.05 ± 0.05
Outer Jacket Thickness	mm	0.28 ± 0.05
Outer Jacket Material		LSZH
Strength member material		Aramid
Inner Tube Outside Diameter	mm	1.1 to 1.2
Inner Tube Inside Diameter	mm	0.72 to 0.9
Inner Tube Thickness	mm	0.17 ± 0.05
Inner tube Material		Hytrel 7246
Insertion length of 2x optical fiber (minimum)	m	4
"No kink" bend radius (minimum)	mm	5
Nominal weight	kg/km	4.0
Maximum tensile load (installation)	N	70
Maximum tensile load (installed)	N	25
Minimum bend radius (installation)	mm	42
Minimum bend radius (installed)	mm	21
Maximum Crush (installation)	N/ 100 mm	500
Maximum Crush (installed)	N/ 100 mm	100
Coil length	m	Up to 1000
Plywood drum dimensions (Flange, Barrel, Width) 1km	mm (approx)	F630, B300, W330
Drum weight with cable 1km (approximately)	kg (approx)	12

Fire Performance

Fire Test Description	Fire Test Specification	Requirement
Smoke emission	IEC 61034-1 & 2	≥ 60% transmittance
Vertical Flame Propagation	IEC 60332-1	PASS
Toxicity (Halogen free)	IEC 60754-1	PASS
Acid gas emission	IEC 60754-2	conductivity < 10 µS/mm and pH > 4,3

Product Range

Part Number	Description
DZELZJ1BZZ	Unbranded 1.15mm OD Tubing Hytrel 7246, aramid, 2.1mm Blue Jacket LSZH
DZELZJ2BZZ	Unbranded 1.15mm OD Tubing Hytrel 7246, aramid, 2.1mm Orange Jacket LSZH
DZELZJ9BZZ	Unbranded 1.15mm OD Tubing Hytrel 7246, aramid, 2.1mm Yellow Jacket LSZH
DZELZJCBZZ	Unbranded 1.15mm OD Tubing Hytrel 7246, aramid, 2.1mm Aqua Jacket LSZH

Note: For other Jacket colors substitute the code in the part number DZEKZJ C BZZ for the code given in the Color Code Table below and change the description for the color from the table.

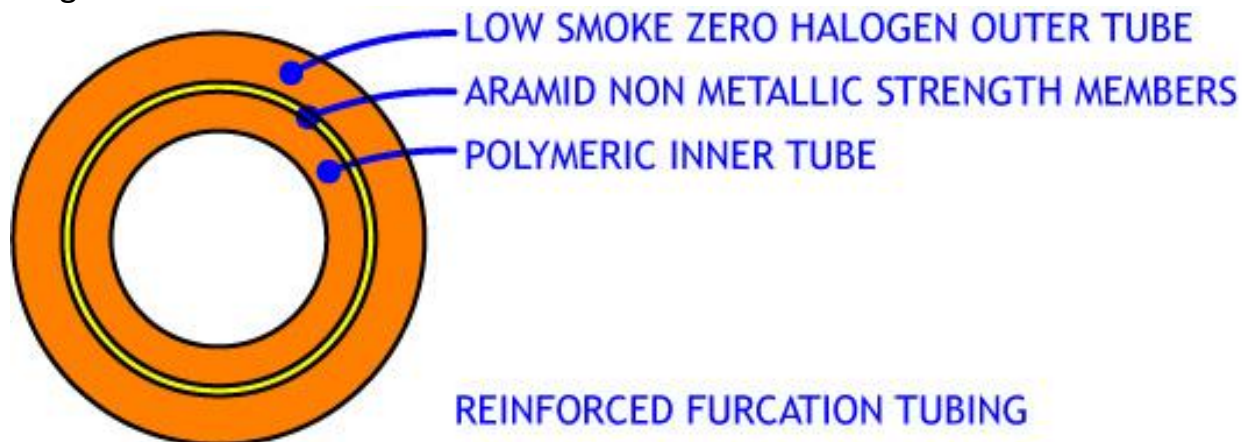
Color shall closely resemble the RAL or Munsell value

*** Color Name	^ Code	Specification
Blue	1	RAL 5015
Orange	2	RAL 2003
Green	3	RAL 6018
Brown	4	RAL 8003
Grey	5	RAL 7000
White	6	RAL 1013
Red	7	RAL 3000
Black	8	RAL 9005
Yellow	9	RAL 1021
Purple	A	RAL 4005
Pink	B	RAL 3015
Aqua	C	RAL 6027
Erika Violet	D	RAL 4003
Ivory	E	RAL 1015
Lime Green*	F	Munsell 8GY 8.5/9.5

IEC 60304 Color Code Table plus additional colors

*Alternate Lime green colors are accepted to specification Pantone 389U or Pantone 381U

Diagram



PRODUCT PACKAGING AND PACKING REQUIREMENTS

The label will indicate the tubing length.

The tubing shall be supplied on a drum fit for the purpose of storing and shipment in a clean damage free condition. The drum shall not have any permanent markings identifying the cable manufacturer or the customer.

The cable will be supplied on a plywood or other wooden drum produced from wood from a sustainable source. The dimensions of the drum shall be determined by the supplier.

Both cable ends will be made waterproof with secure end caps. Heat shrink end caps are acceptable.

The drum shall be shipped in a vertical position and wrapped with a protective plastic wrapping or wooden battens.

The drum shall have a central pintle hole in each flange not less than 40mm in diameter.

Alternatively, the tubing may be supplied on a reel and packed in a cardboard carton.

Cable drums, or cartons, shall be securely fixed singly or multiply in a vertical position on a Euro pallet (800 mm x 1200 mm) using strong bands. A secure method of stacking pallets on top of other larger battened drums for shipping in an ISO container is recommended.

Products supplied under this specification require a materials compliance label on the packaging. The size of the label must be 20 mm x 20 mm and stuck on the cable reel or bare fiber spool.



Figure 1 Materials Compliant Label

The label for identification and traceability shall have a minimum of the following details:

- (i) AFL logos



- (ii) Website address www.aflglobal.com
- (iii) Part Number (as shown in the Order; e.g. DZELZJ9BZZ)
- (iv) Length
- (v) Description (as shown in the order; e.g. Unbranded 1.15mm OD Tubing
Hytrel 7246, aramid, 2.1mm Yellow Jacket LSZH)
- (vi) Country of Origin
- (vii) Materials Compliant as per Figure 1
- (viii) Tracking number – use Purchase order number

This label shall be minimum 25mm wide and applied to the outside of a cable flange. Bar coding of length, Part number, and tracking number required.

All test data must be retained for at least 5 years.

CE marking

CE marking on the drum flange or carton is not required for this tubing.

C-62-FF-0003.03 01/2020 RN (for product specification also refer to C-62-FF-0000) All Rights Reserved



Change log

Specification	Date	Change
C-62-FF-0003.02	03/09/19	Update part number and description to AFL Hyperscale Fire performance updated with pass fail criteria Add packaging section
C-62-FF-0003.03		Add OM5 option to color table
C-62-FF-0003.04	02/12/24	AFL rebranded