

TECHNICAL DETAILS OF 12 FIBRE (G652D/G657A1/G657A2)
AERIAL FLAT DROP CABLE (LOOSE TUBE DESIGN)

(1) MECHANICAL CHARACTERISTICS:

Temperature Range (IEC 60794-1-2-F1)

Laying and Installation -10° to +60°C

Operation -20° to +70°C

Transport and Storage -20° to +70°C

Cable Bending Radius (IEC 60794-1-2-E11) 20D, D= Height of cable

Tensile Force (IEC 60794-1-2-E1) 1000 N (Max)

Crush Resistance (IEC 60794-1-2-E3) 2000 N (100 X 100 mm) for 60 sec

Impact (IEC 60794-1-2-E4) 10 Nm

Torsion (IEC 60974-1-2-E7) ± 180

(2) OPTICAL CHARACTERISTICS:

Fibre used in the cable manufacturing fully comply to ITU-T-Rec.

Attenuation at 1310 nm ≤ 0.36 dB/Km

Attenuation at 1550 nm ≤ 0.23 dB/Km

(3) COLOUR CODING:

Colour of Fibres in a Tube :

For 12F Blue, Orange, Green, Brown, Slate, White, Red, Black
Yellow, Violet, Pink, Aqua.

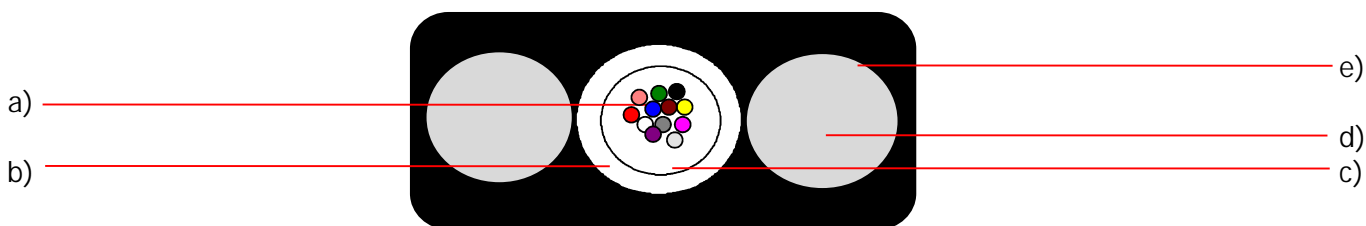
Colour of loose tube:

Natural

(4) CABLE CONSTRUCTIONAL DETAILS:

- | | |
|--------------------------|--------------------------|
| a) Primary Coated Fibre | Single Mode |
| b) Loose Tube | PBTP (1.8mm) |
| c) Tube Filling Compound | Thixotropic Jelly |
| d) Strength Member | FRP Rod (1.8mm) |
| e) Sheath | UV Stabilized Black HDPE |

Typical Cross-section 12F



(5) DELIVERY INFORMATION:

Nominal Cable Weight (Kg/Km)	25
Nominal Width (W) of Cable (mm)	3.0 ± 0.4 mm
Nominal Height (H) of Cable (mm)	6.5 ± 0.5 mm
Standard Length Per Drum (Mtr)	2000 ± 5 %

(6) CABLE SHEATH MARKING:

Cable sheath shall be marked with Ink Jet Printing method in contrast colour. Marking details can be customized.

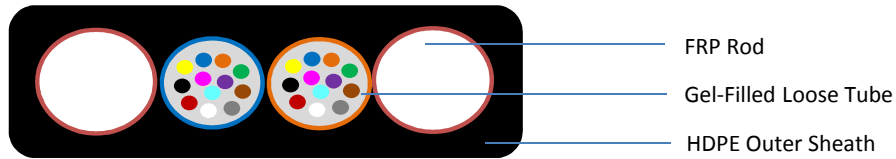
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KST LTD
Technical Data Sheet

Cable Description	24F Flat Drop Cable
Type of Fibre	Single Mode, G.652.D
Make of Fibre	Furukawa
Reference Number	TDS/VTLSC0516-A

Cable Cross Sectional Diagram [Drawing not to scale]



Cable Construction details

No.of Fibres in a Tube	24 Fibers in a Tube
Fibre Colour	Blue,Orange,Green,Brown,Slate,White,Red,Black, Yellow,Violet,Pink & Aqua,
Loose Tube Filled with Thixotropic	Blue & Orange No's : 02 ID/OD : 1.2/1.8 mm
Strength Member	02 Nos FRP - Dia. 1.8 mm, Embedded in Sheath at 180°.
Outer Sheath	HDPE Black Colour

Mechanical & Environmental Characteristics

Tensile Force [IEC 60794-1-2-E1]	1000 N
Crush Resistance [IEC 60794-1-2-E3]	2000 N/10cm
Bend Radius [IEC 60794-1-2-E11]	
Temporary	10 x D, D = Cable Diameter
Permanent	20 x D, D = Cable Diameter
Temperature Range [IEC 60794-1-2-F1]	-30°C to +70°C
Span Length	60 Meter

Cable Physical Characteristics

Cable Outer Dimension	Height	3.4 ± 0.5 mm	Nominal Cable Weight	30 Kg/Km
	Width	8.8 ± 0.5 mm		

Printing Details

Printing details	As per PO
Printing Type	Ink Jet Printing