

FIBER & TUBE COLOURS INFORMATION

General Description

Generally, fibers are coated with colours for differentiation when they are manufactured as a multi-fiber cable. This is similar to the loose tube that contains the fiber in a cable, the tubes are also coloured for easy identification. In addition, the distribution of the number of fiber per tube in a multi-tube cable construction may differ from manufacturer to manufacturer. Thus, this document will provide all these details as a reference in case the information is required for the design and planning.

Fiber Colour Code

The colours of the fibers are according to IEC60793-2 and TIA/EIA-598.

Fiber Core No.	Colour of Fiber
01	Blue
02	Orange
03	Green
04	Brown
05	Grey (Slate)
06	White
07	Red
08	Black
09	Yellow
10	Violet
11	Pink (Rose)
12	Turquoise (Light Blue)
13	Blue – with black ring
14	Orange – with black ring
15	Green – with black ring
16	Brown – with black ring
17	Grey (Slate) – with black ring
18	White – with black ring
19	Red – with black ring
20	Black – with yellow ring
21	Yellow – with black ring
22	Violet – with black ring
23	Pink (Rose) – with black ring
24	Turquoise (Light Blue) – with black ring

FIBER & TUBE COLOURS DETAIL

Tube Colour Code

The Polybutylene Terephthalate(PBT) tubes are normally used in the loose tube fiber optic cable construction, they are normally filled with jelly and used to contain and protect the fiber in the cable. The colours of the tube are similar to the fiber that is according to TIA/EIA-598 standard.

Tube No.	Colour of Fiber
01	Blue
02	Orange
03	Green
04	Brown
05	Grey (Slate)
06	White
07	Red
08	Black
09	Yellow
10	Violet
11	Pink (Rose)
12	Turquoise (Light Blue)



FIBER & TUBE COLOURS DETAIL

Fiber Quantity Distribution (6 Tubes Cable Design)

This table shows the fiber distribution in a 6 tubes cable design where each tube can hold a maximum of 6 fiber cores.

No. of Fiber Core	Distribution
02	1 Tube of 2 Fibers
04	1 Tube of 4 Fibers
06	1 Tube of 6 Fibers
08	2 Tubes of 4 Fibers
12	2 Tubes of 6 Fibers
16	2 Tubes of 6 Fibers & 1 Tube of 4 Fibers
18	3 Tubes of 6 Fibers
24	4 Tubes of 6 Fibers
28	4 Tubes of 6 Fibers & 1 Tube of 4 Fibers
30	5 Tubes of 6 Fibers
32	5 Tubes of 6 Fibers & 1 Tube of 2 Fibers
36	6 Tubes of 6 Fibers