



Rev. No: 200326

LINK LENGTH OF MULTIMODE FIBERS & COLOR CODING FOR OPTICAL CABLES

Fokabeks Kablo ve Sistemleri Ltd. Şti.



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fiber optic happens'

LINK LENGTH OF MULTIMODE OPTICAL FIBERS

IEEE Standard	OM1	OM2	OM2+	OM3	OM4	OM5
	62,5 μm	50 μm	50 μm	50 μm	50 μm	50 μm
	200/500 MHz.km	500/500 MHz.km	750/500 MHz.km	1500/500 MHz.km	3500/500 MHz.km	3500/500 MHz.km
1000BASE-SX	275 m	550 m	750 m	860 m	860 m	860 m
1000BASE-LX	550 m	550 m	550 m	550 m	550 m	550 m
10GBASE-SR	33 m	83 m	150 m	300 m	550 m	550 m
25GBASE-SR				70 m	100 m	100 m
40GBASE-SR4		30 m		100 m	150 m	150 m
100GBASE-SR4				100 m	150 m	150 m
100GBASE-SR10				100 m	150 m	150 m
400GBASE-SR4.2				70 m	100 m	150 m
400GBASE-SR8				70 m	100 m	100 m
800GBASE-VR8				30 m	50 m	50 m
800GBASE-SR8				60 m	100 m	100 m
40G-BiDi				100 m	150 m	200 m
100G-BiDi				70 m	100 m	150 m
40G-SWDM4				240 m	350 m	440 m
100G-SWDM4				75 m	100 m	150 m
Terabit BiDi 800G-VR4.2				30 m	50 m	70 m
Terabit BiDi 800G-SR4.2				45 m	70 m	100 m
Terabit BiDi 1.6T-VR8.2				30 m	50 m	70 m
Terabit BiDi 1.6T-SR8.2				45 m	70 m	100 m



Link Distances of Multimode Fibers & Color Coding for Optical Cables

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STANDART COLOR CODING FOR TUBES & FIBERS OF OPTICAL CABLES

MULTI LOOSE TUBE & FLEX TUBE FIBER OPTIC CABLES (Acc.To the TIA / EIA 598 & EN 50174-1)

Tube Colors (For max. 24 loose tubes per cable)

Tube No	1	2	3	4	5	6	7	8	9	10	11	12
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

Tubes with Longitudinal Stripe

Tube No	13	14	15	16	17	18	19	20	21	22	23	24
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

Fiber Colors (For max. 24 fibers per tube)

Fiber No	1	2	3	4	5	6	7	8	9	10	11	12
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

Fibers with Ring marking

Fiber No	13	14	15	16	17	18	19	20	21	22	23	24
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

CENTRAL MONOTUBE FIBER OPTIC CABLES

Tube Color (For max. 1 tube per cable)

Tube Colour Coding	Natural/ yellow for Singlemode fibers, orange for OM2 fibers, grey for OM1 fibers and Aqua for OM3 / OM4 & OM5 fibers
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Fiber Colors (For max. 24 fibers per tube)

Fiber No	1	2	3	4	5	6	7	8	9	10	11	12
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

Fibers with Ring marking

Fiber No	13	14	15	16	17	18	19	20	21	22	23	24
Color	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua
	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

• Unless otherwise specified, dummy fillers for multi loose and flex tubes are natural or black.

• Custom design color codings available upon request .

• Ring marking with black for all fibers except black fibers which have yellow ring marking or natural fibers are used with black ring marking.

• Alternatively to use color coded yarns for bundled fiber groups is available instead & natural fibers can be used to replace white fibers Acc.To the TIA / EIA 598 & EN 50174-1.