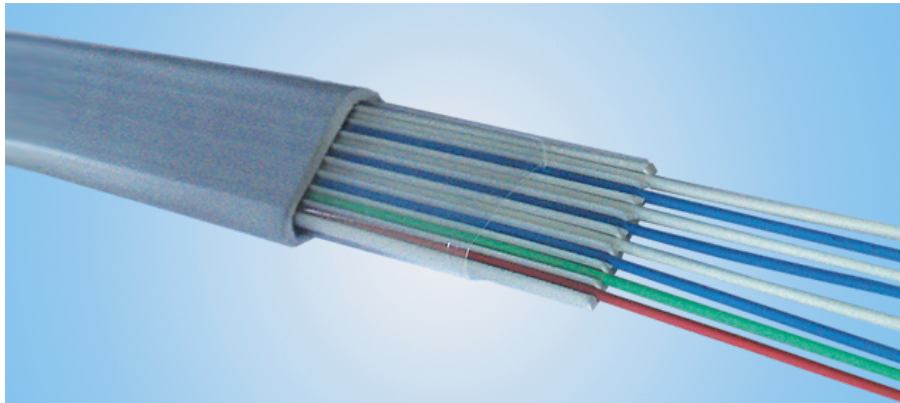


PRODUCT DATA SHEET

8 FIBRE OPTICAL FLAT CABLE FTTH VERTICAL RISER CABLING

OPTOCOMB SERIES



DESCRIPTION

OptoComb8 is a unique flat optical cable specifically designed for vertical riser cabling in FTTH applications.

Its main advantage is that fibres are located parallel and independent within their own "comb" slot, and can be extracted by simply applying a negligible pulling force. Individual fibres are reinforced with aramidic yarns, providing excellent pulling strength and scratch proof resistance.

This feature represents the key factor for "spliceless" optical subscriber cabling in multi-storey buildings. As a normal practice, 2 different cabling solutions are utilized:

1. Star networks with individual fibre cores reaching the subscriber outlet from the main Point of Access, or
2. A vertical optical backbone in conjunction with floor distribution points where riser fibres are spliced to horizontal cabling (needs horizontal optical fibre cables, optical splices, pigtails, adapters etc..)

With OptoComb as a vertical riser cable, subscriber outlets at floor level can easily be branched by simply: 1) cutting a small portion of the cable jacket; 2) selecting the fibre to be branched and gently pulling it downwards; 3) restoring the cable with self fusing tape; 4) carrying the fibre core to the subscriber outlet.

OptoComb8 is available with SMR G652/B, G652D, G657, 50/125 and 62.5/125 optical fibres, with low smoke halogen free UV resistant jacket for indoor and outdoor installation.

PRODUCT DATA SHEET

CONSTRUCTION DETAILS

Outer jacket	UV Resistant LSZH material
Inner Comb	LSZH material, 8 slots, grey
Outline Section	mm 5.5 x 17.0, nominal

OPTICAL FIBRE CORES

OF type	G652B, G652D, G657, MM 50/125 and 62.5/125
Construction	Tight buffered, aramidic yarns reinforced, coloured LSZH jacket
Nominal OD	0.90 mm

MECHANICAL TESTS

Tensile performance [N]	Overall: ≥ 500 Individual fibre: ≥ 50	IEC 60794-1-2-E1 EN 187000-501
Crush [N/100mm]:	≥ 5000	IEC 60794-1-2-E3 EN 187000-504
Impact energy [J]:	≥ 10 , 3 locations	IEC 60794-1-2-E4 EN 187000-505
Temperature (Operating)	$-30^{\circ}\text{C} \div +70^{\circ}\text{C}$	
Temperature range (Installation)	$-20^{\circ}\text{C} \div +60^{\circ}\text{C}$	
Individual fibre extraction force	≤ 0.10 N on 25 mtrs cable length	

PACKING

Plastic drums, 500 mtrs