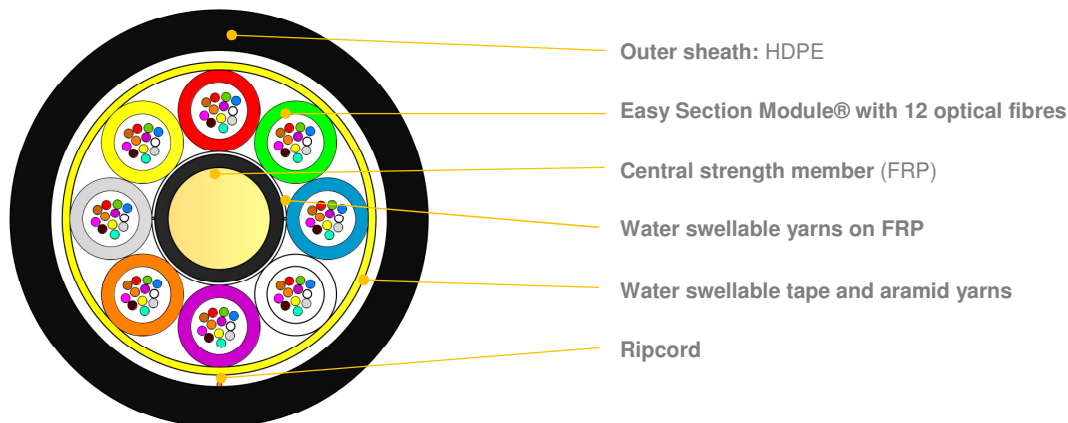


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Single Jacket Cable with aramid yarns and FRP rods reinforcement MK-FM7 PE



*Schematic drawing, not to scale

CABLE DESIGNS

Variant	Quantity [pcs]				Ø nominal (±0,2) [mm]	Nominal weight (±10%) [kg/km]
	Fibres	Fibres per tube	Total elements	Active tubes		
8T x 12F	96	12	8	8	6,3	40

APPLICATION

Temperature range	Transport & Storage:	- 40 to + 70 °C	Minimum Bending Radius	
	Installation:	- 15 to + 60 °C	Under maximum tension:	20 x cable Ø
	Operation:	- 30 to + 70 °C	Without tension:	20 x cable Ø

MAIN MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Test	Test Standard	Specified Value	Requirement
Max allowed tension	IEC 60794-1-21-E1	600 N	$\Delta\epsilon \leq 0.33\%$, $\Delta\alpha$ reversible
Max operating tension	IEC 60794-1-21-E1	80 N	$\Delta\alpha \leq 0.05$ Db/km
Crush	IEC 60794-1-21-E3	300 N / 100 mm, max. 15 min	$\Delta\alpha$ reversible, no significant damage
Impact	IEC 60794-1-21-E4	5 Nm, 3 impacts, R= 300 mm	$\Delta\alpha \leq 0.05$ Db after the test
Torsion	IEC 60794-1-21-E7	100N, $\pm 180^\circ$, 10 cycles	$\Delta\alpha \leq 0.05$ Db no damage
Repeated bending	IEC 60794-1-21-E6	R=20x D, 100N, 35 cycles	no damage
Cable bend	IEC 60794-1-21-E11	R=20x D, 4 turns, 3 cycles	$\Delta\alpha \leq 0.05$ Db no damage
Temperature cycling	IEC 60794-1-22-F1	-30 °C to +60 °C -40 °C to +70 °C	$\Delta\alpha \leq 0.1$ Db/km $\Delta\alpha$ reversible

(*) values for single-mode fibres, all optical measurements performed at @1550nm

OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION

Fibres and tubes identification information see [DSH_Colors_CODE_XXXX](#) document.

FIBRES PARAMETERS

Optical fibres parameters see [DSH_OFFP](#) document.

MARKING

Printing will be made one of methods (white / ink jet, laser or other suitable method depending on availability) is applied at 1-meter intervals. Pattern can be customized to meet certain requirements.

The accuracy of marking is $\pm 0,5\%$. Remarking is in accordance with Bellcore GR 20 and supersedes earlier markings. Occasional loss of marking is possible. Cables can be supplied with a range of single mode or multimode fibres and customized print.

PACKING

Cables will be shipped on disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. Identification information label will be placed on the drum.

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DELIVERY LENGTH

2000 – 6000 meters \pm 5%, with possibility of supplying up to 5% of total contract quantity as short length cables which should be above 1000 meters long. Tolerance of 5 % of order quantity shall be allowed.