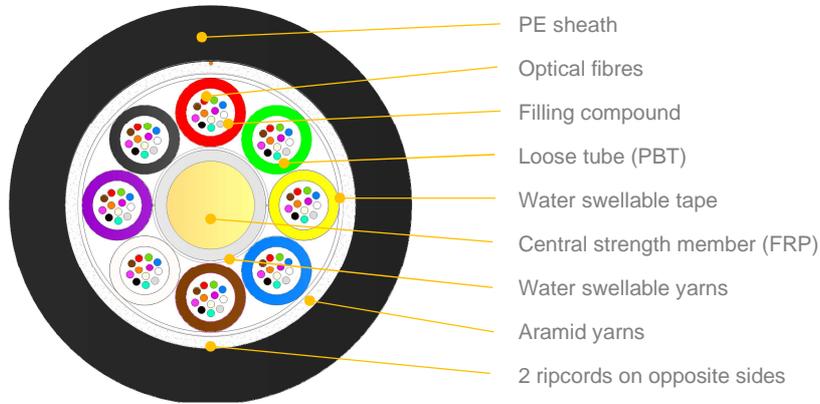


Type:	AERO-AS06 T25 (01)	REV: 0
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Project:	43-20	DR

## All dielectric self-supporting cable with multitube structure and aramid yarn reinforcement AERO-AS06 (01)



- PE sheath
- Optical fibres
- Filling compound
- Loose tube (PBT)
- Water swellable tape
- Central strength member (FRP)
- Water swellable yarns
- Aramid yarns
- 2 ripcords on opposite sides

\*schematic drawing not to scale

### APPLICATION:

For installation into existing duct  
Fully dielectric  
For installation along power lines with an operation voltage below 150 kV and producing space potential below 4 kV.

### DESIGN:

FRP strength and anti-buckling element  
Water swellable yarns and tape to prevent moisture ingress into the cable core  
Loose tube (PBT Ø 2.5 [mm]) with filling compound  
Optical fibres (G.652.D compatible)  
Fillers (if applicable)  
Aramid yarns as strain relief and rodent protection in two layers laid in opposite directions  
Black UV stabilized PE sheath  
Minimum outer sheath thickness = 1,4 [mm]

### CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max short term tensile load [N]	Max long term tensile load [N]
	Fibres	Fibres per tube	Total elements	Active tubes				

### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	3000 [N/10 cm]	IEC 60794-1-21 E3, $\Delta\alpha \leq 0,1$ dB, after test
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-21 E6, $\Delta\alpha \leq 0,05$ dB, reversible
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-22 F5B, no leakage
Temperature range		IEC 60794-1-22 F1, $\Delta\alpha \leq 0,1$ dB/km
Installation:	-10... +70 [°C]	
Transport & Storage:	-30... +70 [°C]	

### SUGGESTED MAXIMUM SPAN VALUES

Suggested max span	60 [m]
Installed Sag (2%)	1,2 [m]
Loading conditions	Ice 12,5 [mm]; wind 190 [Pa]

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**OPTICAL FIBRES AND LOOSE TUBES COLOUR IDENTIFICATION**

Tube 01-12	1	2	3	4	5	6	7	8	9	10	11	12
Code												
Colour	Red	Blue	White	Green	Violet	Orange	Grey	Yellow	Brown	Pink	Black	Aqua
Fibre 01-12	1	2	3	4	5	6	7	8	9	10	11	12
Code												
Colour	Red	Blue	White	Green	Violet	Orange	Grey	Yellow	Brown	Pink	Black	Aqua

**FIBRES PARAMETERS**

For selected post-production optical fibres parameters please see **DSH\_OFP** document.

**MARKING**

The following marking (hot foil, laser marking or other suitable method depending on availability) is applied at 1-meter intervals:

Example: MÁV Zrt. <YEAR OF MANUFACTURE> FIBRAIN <FIBRAIN PRODUCT CODE> Fve <TUBE COUNT> X <FIBER COUNT> L SM LWP <BATCH NUMBER> <LENGTH MARKING>

The accuracy of marking is ±1%. 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 battened disposable wooden or treated wooden drums. Both ends of the cable will be capped and accessible for testing. FIBRAIN logo, drum ID and rotation direction arrow will be marked on both flanges; cable identification information (standard FIBRAIN label) and test report will be attached to every drum. Minimum drum core diameter is 25 x D (where D stands for diameter of the cable).

**DELIVERY LENGTH**

2000 – 8000 meters ± 5% depending on cable design and technical limitations, 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.

The information is believed to be correct at the time of issue. Fibrain reserves the right to change this specification without prior notice. This specification is not contractually valid unless specifically authorised by Fibrain. Buyer and/or user of this product has to make sure before using this product that it is suitable for the intended use. All questions of liability relating to this product are subject – in accordance with the prevailing – to the Terms of Sale of the selling Fibrain subsidiary.