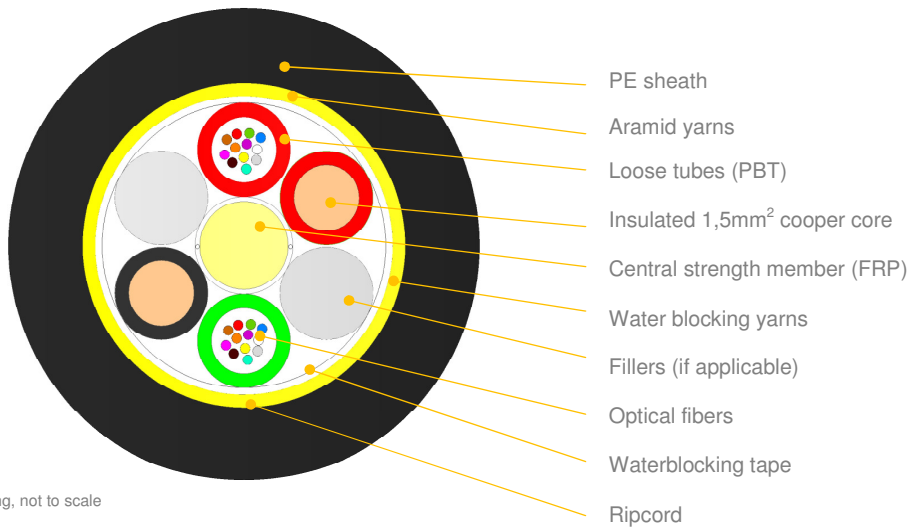


Type:	AERO-ASP02	REV: 0
Issued:	25/04/2016	MM
Status	DRAFT	

Single jacket multitube self-supporting aerial cable AERO AS02



*schematic drawing, not to scale

APPLICATION:

For installation on poles or in ducts.
Self-supporting aerial cable with aramid reinforcement

DESIGN:

FRP strength and anti-buckling element
Dry yarns to prevent moisture into the cable
Loose tube (PBT Ø 2.2mm) with filling compound
Insulated cooper cores 1,5mm² (Ø 2.2mm)
6- elements SZ stranded cable core
Optical fibres
Fillers (if applicable)
Water-swellable tape
Aramid yarns as strain relief and water absorbent
UV stabilized PE sheath

CABLE DESIGNS:

Variant	Quantity [pcs]				Ø nominal (±5%) [mm]	Nominal weight (±10%) [kg/km]	Max allowed tension [N]	Max static tension [N]
	Fibres	Fibres per tube	Total elements	Active tubes				
2T x 12F + 2 x 1,5mm ²	24	12	6	2	10,7	140	2200	1100
Other Fiber counts available on demand								

MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Crush performance:	2000 [N/10 cm]	IEC 60794-1-2-E3, Δα≤0,05 dB, reversible
Bending radius:	Static: 15 x D Dynamic: 20 x D	IEC 60794-1-2-E6, Δα≤0,05 dB, reversible
Water penetration:	3[m] sample, 1[m] head, 24[h]	IEC 60794-1-2-F5, no leakage
Temperature range		IEC 60794-1-2-F1, Δα≤0,05 dB/km
Installation:	-15... +55 [°C]	
Operation:	-40... +70 [°C]	
Transport & Storage:	-40... +70 [°C]	

APPLICATION AND CABLE SPAN CHARACTERISTIC

6 tubes design:

Loading Conditions	Span	Installed Sag (1,5%)	Tension	Total sag	Horizontal sag	Vertical sag
	[m]	[m]	[N]	[m]	[m]	[m]
NSC Light	120	1,8	2200	3,9	1,4	3,6
NSC Medium	85	1,3	2200	3,1	1,8	2,5
NSC Heavy	50	0,45	2200	2,0	1,1	1,8

Type:	AERO-ASP02	REV: 0
Issued:	25/04/2016	MM
Status	DRAFT	

TECHNICAL COOPER WIRE CHARACTERISTICS

Max. DC resistance	12,1±0,2 Ω/km@20°C
Dielectric strength	3400 VDC/1 minute
Current-carrying capacity	7A
Operating voltage	65V AC/DC
Conductor material	Bare copper
Conductor cross section	1,5mm ²
Wire diameter	2,2mm
Insulation material	PVC

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_OFP** document.

MARKING

The following print (white / hot foil) is applied at 1-meter intervals:

- Supplier: FIBRAIN
- Standard code (Product type, fibre type, fibre count)
- Year of manufacture: xxxx
- Length marking in meters
- Cable ID / Drum No

Example:

FIBRAIN AERO ASP02 SJ T22 24F SM G652D 2T12F 2x1,5CU AC/DC 65 V MAX "YEAR OF MANUFACTURE" "LASER SYMBOL" "LENGTH MARKING"
"BATCH NUMBER"

The accuracy of marking is ±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. Rotation direction arrow will be marked on the drum together with identification information.

DELIVERY LENGTH

2000 – 8000 meters ± 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.