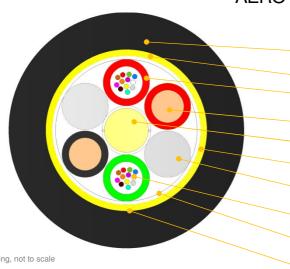


Туре:	AERO-ASP04	REV: 2
Issued:	20/06/2017	AM
Modified:	08/12/2017	AM

Single jacket multitube self-supporting aerial cable AERO ASP04



*schematic drawing, not to scale

APPLICATION:

For installation on poles or in ducts.

Self-supporting aerial cable with aramid reinforcement

PE sheath

Aramid yarns

Loose tubes (PBT)

Insulated 2,5mm² - stranded copper conductors

Central strength member (FRP)

Water blocking yarns

Fillers (if applicable)

Optical fibers

Waterblocking tape

Ripcord

DESIGN:

FRP strength and anti-buckling element
Dry yarns to prevent moisture into the cable
Loose tube (PBT Ø 3,4mm) with filing compound
Insulated stranded copper conductors 2,5mm2 (Ø 3.6mm)
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:

		Quantity [pcs]			Ø	Nominal	Max	Max
Variant	Fibres	Fibres per tube	Total elements	Active tubes	nominal (±5%) [mm]	weight (±10%) [kg/km]	allowed tension [N]	static tension [N]
1T x 12F + 2 x 2,5mm2	12	12	6	1	14,6	168	4000	3000
1T x 12F + 3 x 2,5mm2	12	12	6	1	14,6	192	4000	3000
1T x 12F + 4 x 2,5mm2	12	12	6	1	14,6	217	4000	3000
1T x 12F + 5 x 2,5mm2	12	12	6	1	14,6	241	4000	3000
-								
2T x 12F + 1 x 2,5mm2	24	12	6	2	14,6	171	4000	3000
2T x 12F + 2 x 2,5mm2	24	12	6	2	14,6	195	4000	3000
2T x 12F + 3 x 2,5mm2	24	12	6	2	14,6	219	4000	3000
2T x 12F + 4 x 2,5mm2	24	12	6	2	14,6	243	4000	3000
-								
3T x 12F + 1 x 2,5mm2	36	12	6	3	14,6	173	4000	3000
3T x 12F + 2 x 2,5mm2	36	12	6	3	14,6	197	4000	3000
3T x 12F + 3 x 2,5mm2	36	12	6	3	14,6	221	4000	3000
-								
4T x 12F + 1 x 2,5mm2	48	12	6	4	14,6	176	4000	3000
4T x 12F + 2 x 2,5mm2	48	12	6	4	14,6	200	4000	3000
-								
5T x 12F + 1 x 2,5mm2	60	12	6	5	14,6	178	4000	3000
	Other fibre counts available on demand. Copper wires colours to consult.							

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



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Temperature range

IEC 60794-1-2-F1, Δα≤0,05 dB/km

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	140	2,10	4000	4,3	4,0	1,8
NSC Medium	115	1,72	4000	4,0	2,2	3,3
NSC Heavy	78	1,17	4000	3,1	1,5	2,8

TECHNICAL COOPER WIRE CHARACTERISTICS

Туре	H07V-K (LgY) 450/750V
Max. DC resistance	8,06 Ω/km@20°C
Conductor material	Bare copper
Conductor cross section	2,5mm ²
Conductor Size	3,6mm
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 ASP04 T34 24F SM G652D 2T12F + 4x2,5CU H07V-K 450/750V "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

2000-4000 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.