



Control & signal cable

A-2YOF(L)2YB2Y

Jelly-Filled Armoured Outdoor Telecom Cable

DIN VDE 0816-1 jelly-filled ('OF') & Al/PE-barrier steel-armoured outdoor telecom cable



DIN VDE 0816-1

OF Petrolatum Water-Blocked

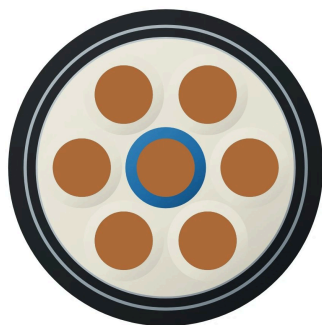
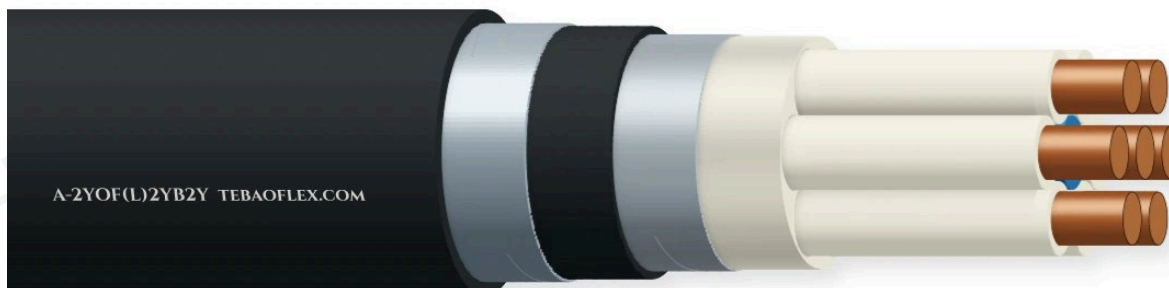
Double Steel Tape Armour (B)

Application

A-2YOF(L)2YB2Y jelly-filled armoured outdoor telecom cable (DIN VDE 0816-1) with 0.6–1.4 mm solid copper star-quads, 2Y PE insulation, 'OF' petrolatum longitudinal water blocking, '(L)2Y' Al/PE radial barrier, double steel tape armour ('B'), and HDPE jacket.

Typical uses: Direct-Buried Telecom & Utility Networks, Pipeline & Water-Utility SCADA Links, Railway & Highway Wayside Communications, Flooded Cable Ducts & High-Water-Table Sites, Industrial Plant Perimeter Interlocks

Construction



Cross-section, not to scale

- 1 Solid bare copper star-quads
- 2 2Y polyethylene core insulation
- 3 OF petrolatum core filling
- 4 (L)2Y Al/PE laminated inner sheath
- 5 Double steel tape armour (B)
- 6 2Y black HDPE outer sheath

Technical data

Typical values

Loop resistance (+20 °C)	$\leq 130 (0.6) \cdot \leq 73.2 (0.8) \cdot \leq 56.6 (0.9) \cdot \leq 23.4 \Omega/\text{km} (1.4)$
Insulation resistance	$\geq 5,000 \text{ M}\Omega \cdot \text{km}$ at +20 °C
Operating temperature (fixed)	-40 °C to +70 °C
Jelly drop-point stability	$\geq +70 \text{ °C}$ (no compound drainage)
Armouring	Double galvanised steel tape ('B')
Max. pulling tension	50 N/mm ² of total copper area
Radial moisture barrier	(L)2Y laminated aluminum/PE inner sheath
Standards	DIN VDE 0816-1

Mutual capacitance (800 Hz)	$\leq 50 \text{ nF/km (St III)} \cdot \leq 52\text{--}55 \text{ nF/km (St I)}$
AC dielectric test voltage	2,000 V AC (core/core & core/screen)
Installation temperature	-20 °C to +50 °C
Core water blocking	Full petrolatum jelly filling ('OF')
Min. bending radius	15 × overall cable diameter
Longitudinal water tightness	IEC 60794-1-22 Method F5 pass
Rodent & crush resistance	Double steel tape armour ('B')

Sizes

10 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cross-section / size	Conductor build	Wall ≈ mm	Outer Ø ≈ mm	Metal kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard A-2YOF(L)2YB2Y configurations 10 sizes							
☐ A-2YOF(L)2YB2Y 6×2×0.6	6×2×0.6	Solid / Stranded Cu	1.45	13.20	96.8	220.0	200
☐ A-2YOF(L)2YB2Y 10×2×0.6	10×2×0.6	Solid / Stranded Cu	1.59	14.50	116.6	265.0	220
☐ A-2YOF(L)2YB2Y 20×2×0.6	20×2×0.6	Solid / Stranded Cu	1.89	17.20	169.4	385.0	260
☐ A-2YOF(L)2YB2Y 50×2×0.6	50×2×0.6	Solid / Stranded Cu	2.53	23.00	312.4	710.0	345
☐ A-2YOF(L)2YB2Y 6×2×0.8	6×2×0.8	Solid / Stranded Cu	1.65	15.00	125.4	285.0	225
☐ A-2YOF(L)2YB2Y 10×2×0.8	10×2×0.8	Solid / Stranded Cu	1.87	17.00	162.8	370.0	255
☐ A-2YOF(L)2YB2Y 20×2×0.8	20×2×0.8	Solid / Stranded Cu	2.31	21.00	255.2	580.0	315
☐ A-2YOF(L)2YB2Y 4×4×0.9	4×4×0.9	Solid / Stranded Cu	2.04	18.50	202.4	460.0	280
☐ A-2YOF(L)2YB2Y 10×4×0.9	10×4×0.9	Solid / Stranded Cu	2.66	24.20	347.6	790.0	365
☐ A-2YOF(L)2YB2Y 4×4×1.4	4×4×1.4	Solid / Stranded Cu	2.48	22.50	330.0	750.0	340

– Outer diameters and weights are nominal engineering values for A-2YOF(L)2YB2Y subject to standard manufacturing tolerances per DIN VDE 0816-1 / EN 50290-2-23 Jelly-Filled Armoured Outdoor Telecom Specification.

Electrical & rating data

10 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Primary rating (A or nF/km)	Secondary rating	Dielectric test V AC rms
6×2×0.6	130.00	50.0	42.5	2,500
10×2×0.6	130.00	50.0	42.5	2,500
20×2×0.6	130.00	50.0	42.5	2,500
50×2×0.6	130.00	50.0	42.5	2,500
6×2×0.8	73.20	50.0	42.5	2,500
10×2×0.8	73.20	50.0	42.5	2,500
20×2×0.8	73.20	50.0	42.5	2,500
4×4×0.9	56.60	52.0	44.2	2,500
10×4×0.9	56.60	52.0	44.2	2,500
4×4×1.4	23.40	52.0	44.2	2,500

– Electrical resistance at +20 °C and dielectric withstand voltages verified per DIN VDE 0816-1 / EN 50290-2-23 Jelly-Filled Armoured Outdoor Telecom Specification.

Standards and approvals

- ✓ DIN VDE 0816-1 / EN 50290-2-23 Jelly-Filled Armoured Outdoor Telecom Specification
- ✓ CE (2014/35/EU) & RoHS 3 (2015/863/EU) Compliant
- ✓ REACH SVHC Compliance Verified

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

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Email

info@tebaoflex.com

Web

tebaoflex.com/cables/a-2yof-l-2yb2y-jelly-filled-armoured-outdoor-telecom-cable



Typical values for this cable type, based on DIN VDE 0816-1 / EN 50290-2-23 Jelly-Filled Armoured Outdoor Telecom Specification. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.