



Low-voltage reeling & crane cables

S07BQ-F

Reinforced PUR-Sheathed Flexible Cable

Reinforced 450/750 V (0.6/1 kV) EI7 EPR-insulated and TMPU PUR-sheathed reeling cable



Based on EN 50525-2-21

450/750 V (0.6/1 kV)

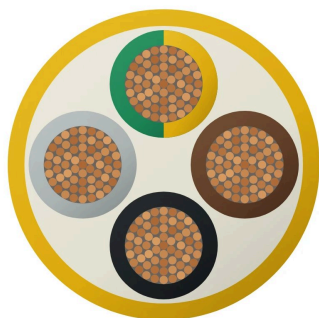
Anti-Torsion Braid · PUR

Application

Mechanically reinforced 450/750 V (0.6/1 kV protected) flexible cable combining +90 °C EI7 EPR core insulation, elastomeric inner bedding, an anti-torsion synthetic support braid and a TMPU polyurethane jacket for spring reels and harsh trailing.

Typical uses: Spring & motorised cable reels, Construction cranes & concrete pumps, Municipal sweeping & sewer vehicles, Machine shops & steel service centres, Cold-climate outdoor mobile plant

Construction



Cross-section, not to scale

1	Flexible copper conductor	EN 60228 Class 5
2	Heat-resistant EPR insulation	EN 50363-1 EI7
3	Elastomeric inner sheath	
4	Anti-torsion support braid	Prevents corkscrewing & raises pull to 20 N/mm ²
5	Polyurethane outer sheath	

Technical data

Typical values

Rated voltage U0/U	450/750 V AC (0.6/1 kV fixed protected)	Max. operating voltage	495/825 V AC (up to 1000 V AC protected)
AC test voltage	2500 V AC (50 Hz, 15 min)	Conductor stranding	IEC 60228 Class 5 fine-stranded bare copper
Current rating basis	DIN VDE 0298-4 (+90 °C EPR conductor rating)	Max. conductor temperature	+90 °C continuous operation
Short-circuit temperature	+250 °C max. (up to 5 s)	Temperature, flexing	−40 °C to +80 °C
Temperature, fixed	−50 °C to +90 °C	Min. bending radius, fixed	5 × overall diameter
Min. bending radius, reeling	6 × overall diameter (reeling & guided flexing)	Max. tensile load	20 N/mm ² dynamic (reinforced with anti-torsion braid)
Torsional stress	± 25 °/m (protected by integrated synthetic braid)	Oil & chemical resistance	EN 60811-404 mineral oils, hydraulic fluids & coolants
Cut, tear & abrasion	High-density TMPU polyurethane resists sharp gravel & swarf	Halogen-free	IEC 60754-1 halogen-free EPR/PUR construction
Weather, UV & microbes	UV, ozone, hydrolysis and microbe resistant for outdoor reels	Standards	Based on EN 50525-2-21 (HD 22.10) & DIN VDE 0250
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

18 standard constructions

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

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
S07BQ-F reinforced 3–5 core power reeling sizes (1.5–50 mm²) 15 sizes							
☐ S07BQ-F 3G1.5	3G1.5	16	9.6	10.4	43	145	62
☐ S07BQ-F 4G1.5	4G1.5	16	10.5	11.4	58	178	68
☐ S07BQ-F 5G1.5	5G1.5	16	11.5	12.5	72	218	75
☐ S07BQ-F 3G2.5	3G2.5	14	11.2	12.2	72	210	73
☐ S07BQ-F 4G2.5	4G2.5	14	12.3	13.4	96	260	80
☐ S07BQ-F 5G2.5	5G2.5	14	13.6	14.8	120	320	89
☐ S07BQ-F 4G4	4G4	12	14.4	15.6	154	375	94
☐ S07BQ-F 5G4	5G4	12	15.8	17.2	192	460	103
☐ S07BQ-F 4G6	4G6	10	16.2	17.6	230	515	106
☐ S07BQ-F 5G6	5G6	10	18.0	19.6	288	635	118
☐ S07BQ-F 4G10	4G10	8	20.8	22.6	384	880	136
☐ S07BQ-F 4G16	4G16	6	23.9	26.0	614	1,240	156
☐ S07BQ-F 4G25	4G25	4	28.9	31.4	960	1,840	188
☐ S07BQ-F 4G35	4G35	2	32.4	35.2	1,344	2,410	211
☐ S07BQ-F 4G50	4G50	1	37.5	40.8	1,920	3,310	245
S07BQ-F reinforced 7–12 core control reeling sizes (1.5–2.5 mm²) 3 sizes							
☐ S07BQ-F 7G1.5	7G1.5	16	13.6	14.8	101	305	89
☐ S07BQ-F 12G1.5	12G1.5	16	16.9	18.4	173	475	110
☐ S07BQ-F 7G2.5	7G2.5	14	16.0	17.4	168	445	104

– Dimensions and weights are typical values per Based on EN 50525-2-21 / DIN VDE 0250. Minimum fixed bending radius shown is 6 × OD.

Electrical & current ratings

9 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	1-core in air 30 °C, A	3–4 core in air 30 °C, A
1.5	16	13.3	23	18
2.5	14	7.98	30	25
4	12	4.95	41	34
6	10	3.3	53	44
10	8	1.91	74	61
16	6	1.21	99	82
25	4	0.78	131	108
35	2	0.554	162	135
50	1	0.386	202	168

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / EN 50565-1. Apply derating factors for elevated ambient temperature or reeling layer grouping.

Standards and approvals

✓ Based on EN 50525-2-21 / DIN VDE 0250

✓ CE · RoHS 2 (2011/65/EU) · REACH

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

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Web

tebaoflex.com/cables/s07bq-f-reinforced-pur-sheathed-flexible-cable



Typical values for this cable type, based on Based on EN 50525-2-21 / DIN VDE 0250. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.