



power connection cable series

0361TQ

HOFR Welding Cable

BS 638-4 / EN 50525-2-81 Class 6 ultra-fine copper HOFR elastomer welding cable



BS 638-4 / H01N2-D 0361TQ

Class 6 (0.20 mm) Ultra-Flex Cu

HOFR CSP/PCP Rubber Jacket

Application

0361TQ HOFR Welding Cable (100/100 V AC / 150 V DC, 16 mm² to 185 mm²) manufactured to BS 638-4 and EN 50525-2-81 (harmonized H01N2-D / H01N2-E)—combining Class 6 ultra-fine 0.20 mm bare annealed copper rope-lay stranding.

Typical uses: Shipyard Hull & Offshore Jacket Structural Welding, Automotive Body-in-White Robotic Spot/MIG Cells, Heavy Steel Fabrication, Bridge & Pressure-Vessel Shops, Pipeline Field Welding & Mobile Generator Rigs, Low-Voltage High-Current Battery & Plating Jumpers

Construction



Cross-section, not to scale

- 1 Class 6 (0.20 mm) ultra-fine rope-lay bare copper conductor
- 2 Heat-resistant polyester (PET) sliding separator tape
- 3 Type EM5 HOFR (Heat, Oil & Flame Retardant) rubber covering

Technical data

Typical values

Rated voltage (Uo/U)	100 / 100 V AC (up to 150 V DC open-circuit welding voltage)	Routine AC test voltage	1,000 V AC rms for 15 minutes in water bath
Max. DC resistance @ 20 °C	0.554 Ω/km (35) · 0.386 Ω/km (50) · 0.272 Ω/km (70) · 0.206 Ω/km (95)	Duty-cycle ampacity (60 %)	290 A (35) · 365 A (50) · 460 A (70) · 560 A (95) · 650 A (120)
Max. conductor temperature	+85 °C continuous operation	Ambient temperature range	-25 °C to +85 °C (flexible handling down to -20 °C)
Short-circuit / hot spatter	+250 °C short-circuit · Passes +200 °C hot mandrel spatter test	Max. strand wire diameter	0.20 mm (H01N2-D Class 6) · 0.15 mm (H01N2-E extra-flex)
Covering wall thickness	2.0 mm (16–70 mm²) · 2.2 mm (95 mm²) · 2.4 mm (120 mm²) · 2.6 mm (150 mm²)	Min. bend radius	4 × OD (static) · 6 × OD (free flexing)
Flame propagation	BS EN 60332-1-2 vertical single-cable flame test	Oil & chemical resistance	Type EM5 mineral oil immersion tested at +100 °C for 24 h
Welding particle resistance	Thermoset HOFR rubber will not melt or drip when hit by weld spatter	Standards	BS 638-4 (CMA Code 0361TQ) · BS EN 50525-2-81 (H01N2-D)

Sizes

7 standard constructions

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

Order designation	Approx. stranding 0.20 mm	Mean Ø ≈ mm	Weight ≈ kg/km	100% Duty A	60% Duty A
0361TQ / H01N2-D Class 6 HOFR Welding Cables (16–150 mm²) 7 sizes					
☐ 0361TQ 1 × 16 mm²	~504 × 0.20 mm Class 6 Cu	9.3	205	135	175
☐ 0361TQ 1 × 25 mm²	~780 × 0.20 mm Class 6 Cu	10.6	295	180	230
☐ 0361TQ 1 × 35 mm²	~1099 × 0.20 mm Class 6 Cu	11.8	400	225	290
☐ 0361TQ 1 × 50 mm²	~1568 × 0.20 mm Class 6 Cu	13.6	555	285	365
☐ 0361TQ 1 × 70 mm²	~2205 × 0.20 mm Class 6 Cu	15.6	760	355	460
☐ 0361TQ 1 × 95 mm²	~2989 × 0.20 mm Class 6 Cu	17.9	1,015	430	560
☐ 0361TQ 1 × 120 mm²	~3773 × 0.20 mm Class 6 Cu	19.8	1,265	500	650

– At 30 % intermittent hand-welding duty cycle, current capacity increases to 395 A (35 mm²), 500 A (50 mm²), 635 A (70 mm²) and 765 A (95 mm²).

Standards and approvals

- ✓ BS 638-4 (0361TQ)
- ✓ EN 50525-2-81 (H01N2-D)
- ✓ IEC 60245-6 & CE / UKCA

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

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/0361tq-hofr-welding-cable



Typical values for this cable type, based on BS 638-4 / EN 50525-2-81 (H01N2-D / H01N2-E). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.