Rubber cables

S-3GCSHXOEU 0.6/1kV UL 21465

Wind Torsion Power Cable

Braided EMC LSOH rubber torsion-resistant cable for wind turbine loops

DIN VDE 0250 / UL 21465 | 0.6/1 kV (-40...+90 °C) | ±100°/m EMC Torsion



Application

Screened 0.6/1 kV (1,000 V UL Style 21465) wind turbine torsion cable with Class 5 tinned copper, 3GI3 EPR insulation, >90% tinned copper braid and black HXM1 LSOH sheath.

Typical uses: Onshore & Offshore Wind Turbines, Nacelle-to-Tower Yaw Loops, Wind Turbine Converter Cabinets, Cold-Climate Utility Wind Farms

Construction





Cross-section, not to scale

1	Conductor	DIN EN 60228 Class 5 fine-stranded tinned copper · DIN EN 60228 Class 5
2	Core insulation	90 °C 3GI3 thermoset EPR rubber (Brown, Black, Grey, Green/Yellow) · DIN VDE 0207 / HD 308
3	Inner sheath	Extruded cream GM1b torsion-stabilising rubber inner sheath
4	EMC braid screen	>90% optical coverage tinned copper wire braid (≤ 10 mΩ/m)
5	Outer sheath	Black HXM1 LSOH oil-, UV-, ozone- & cold-resistant rubber sheath · UL Style 21465

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV (1,000 V UL Style 21465)	Max. operating voltage AC	0.7/1.2 kV AC (DIN VDE 0298-3)
AC test voltage	4.0 kV AC (5 min)	Screen / Field control	>90% TC braid · ≤ 10 mΩ/m
Conductor resistance (10 mm²)	≤ 1.95 Ω/km at 20 °C	Temperature, flexing	-40 °C to +90 °C
Temperature, fixed installation	-40 °C to +90 °C	Max. conductor temperature	+90 °C
Short-circuit temperature	+250 °C (max. 5 s)	Torsional stress	±100°/m continuous yaw loop
Min. bending radius, moving	6 × OD	Min. bending radius, fixed	4 × OD
Oil resistance	Mineral & synthetic turbine oils	Flame retardance	IEC 60332-1-2 & UL VW-1 / FT2
Halogen-free / Smoke density	IEC 60754-1/2 & IEC 61034-2	UV & ozone	UV-, ozone- & cold-flex (-40 °C) rated
Standards	Based on DIN VDE 0250 / UL Style 21465		

Sizes

9 standard constructions

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

Order designation	Cores × mm²	AWG ≈	Outer Ø ≈ mm	Max. DCR 20 °C Ω/km	Weight ≈ kg/km	Flex bend R mm
4G braided EMC wind torsion 9 sizes						
☐ S-3GCSHXOEU 4G1.5	4G1.5 mm²	16 AWG	14.5	13.700	285	87
☐ S-3GCSHXOEU 4G2.5	4G2.5 mm²	14 AWG	16.4	8.210	375	98
☐ S-3GCSHXOEU 4G4	4G4 mm²	12 AWG	19.0	5.090	520	114
☐ S-3GCSHXOEU 4G6	4G6 mm²	10 AWG	21.5	3.390	685	129
☐ S-3GCSHXOEU 4G10	4G10 mm²	8 AWG	26.0	1.950	1,030	156
☐ S-3GCSHXOEU 4G16	4G16 mm²	6 AWG	29.8	1.240	1,420	179
☐ S-3GCSHXOEU 4G25	4G25 mm²	4 AWG	34.5	0.795	1,990	207
☐ S-3GCSHXOEU 4G35	4G35 mm²	2 AWG	38.6	0.565	2,610	232
☐ S-3GCSHXOEU 4G50	4G50 mm²	1 AWG	44.2	0.393	3,560	265

– Representative 4G10 mm² construction has nominal outer diameter 26.0 mm. Max. DC resistance at 20 °C per IEC 60228 Table 3 (Class 5 tinned Cu).

Standards and approvals

- DIN VDE 0250 & UL Style 21465 design compliance
- EN 10204 3.1 Factory Test Certificate
- 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
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/s-3gcshxoeu-0-6-1kv-ul-21465

Typical values for this cable type, based on DIN VDE 0250 & UL Style 21465. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.