Rubber cables

S-3GDSHÖU 0.6/1kV UL 4537

Single-Core Wind Torsion Cable

Spiral-screened 3GI3 EPR and 5GM3 CPE single-core wind turbine cable

DIN VDE 0250 / UL 4537 | 0.6/1 kV (95–300 mm²) | ±100°/m Spiral EMC



Application

Single-core 0.6/1 kV (1,000 V UL Style 4537) wind turbine loop feeder with Class 5 bare copper, 3GI3 EPR insulation, >90% tinned copper spiral screen and black 5GM3 CPE sheath.

Typical uses: Multi-Megawatt Wind Turbines, Nacelle Generator-to-Tower Loops, Offshore & Cold-Climate Wind, High-Current VFD Converter Drops

Construction





Cross-section, not to scale

1	Conductor	DIN EN 60228 Class 5 fine-stranded plain bare copper · IEC 60228 Class 5
2	Core insulation	90 °C 3GI3 thermoset EPR rubber insulation with separator wrap · UL Style 3775 / VDE 0207
3	Spiral copper screen	>90% optical coverage helically spun tinned copper wire screen
4	Outer sheath	Black 5GM3 chlorinated polyethylene (CPE) rubber outer sheath · UL Style 4537 / 5GM3

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV (1,000 V UL Style 4537)	**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% tinned Cu spiral wire screen
Conductor resistance (150 mm²)	≤ 0.129 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 bidirectional yaw twisting
Min. bending radius, moving	6 × OD	**Min. bending radius, fixed**	4 × OD
Oil resistance	Synthetic gear & hydraulic oils (5GM3)	**Flame retardance**	IEC 60332-1-2 & UL VW-1 / FT2
UV & ozone	UV-, ozone- & weather-resistant CPE	**Standards**	Based on DIN VDE 0250 / UL Style 4537

Sizes

6 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 / kcmil ≈	Outer Ø ≈ mm	Max. DCR 20 °C Ω/km	Weight ≈ kg/km	Flex bend R mm
Single-core 0.6/1 kV spiral-screened 6 sizes						
☐ **S-3GDSHÖU 1×95**	**1 × 95 mm²**	**3/0 AWG**	**23.4**	**0.2060**	**1,240**	**140**
☐ **S-3GDSHÖU 1×120**	**1 × 120 mm²**	**4/0 AWG**	**25.5**	**0.1610**	**1,520**	**153**
☐ **S-3GDSHÖU 1×150**	**1 × 150 mm²**	**300 kcmil**	**27.8**	**0.1290**	**1,860**	**167**
☐ **S-3GDSHÖU 1×185**	**1 × 185 mm²**	**350 kcmil**	**30.6**	**0.1060**	**2,270**	**184**
☐ **S-3GDSHÖU 1×240**	**1 × 240 mm²**	**500 kcmil**	**34.4**	**0.0801**	**2,910**	**206**
☐ **S-3GDSHÖU 1×300**	**1 × 300 mm²**	**600 kcmil**	**38.2**	**0.0641**	**3,620**	**229**

– Representative 1×150 mm² build has nominal outer diameter 27.8 mm (conductor Ø ≈ 16.0 mm). Max. DC resistance at 20 °C per IEC 60228 Table 3 (Class 5 plain Cu).

Standards and approvals

- DIN VDE 0250 & UL Style 4537 / 3775 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-3gdshoeu-0-6-1kv-ul-4537

Typical values for this cable type, based on DIN VDE 0250 & UL Style 4537 / 3775. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.