



Flexible coil-lead & festoon cable

BS 6195 Type 4A / 4C / 4D

Flexible Coil-Lead and Festoon Cable

Single-core 0.6/1 to 6.35/11 kV EPR, EVA and silicone coil-lead and festoon cables



BS 6195 Types 4A / 4C / 4D

0.6/1 kV to 6.35/11 kV

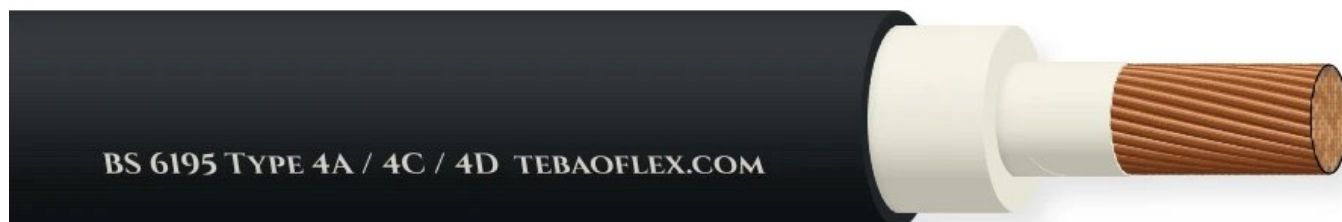
90 °C · 110 °C · 150 °C

Application

British Standard BS 6195 single-core flexible cables (Type 4A 90 °C EPR/CSP, Type 4C 150 °C silicone/glass-braid, Type 4D 110 °C EVA/EPR) from 600/1000 V to 6350/11000 V for motor/transformer leads, crane festoons and reeling connections.

Typical uses: HV & LV electric motor manufacturing, Power & traction transformers, Steelworks & crane festoon jumpers, Slip-ring & collector gear leads, Generators, alternators & test bays

Construction



Cross-section, not to scale

- 1 Flexible tinned copper conductor
- 2 Conductor separator tape
- 3 Primary elastomeric insulation
- 4 Composite outer sheath / glass braid

BS EN 60228 / IEC 60228
Class 5 (1.5 to 630 mm²)

Technical data

Typical values

Voltage categories (U0/U)	0.6/1, 1.9/3.3, 3.8/6.6 & 6.35/11 kV
Conductor DC resistance	BS EN 60228 / IEC 60228 Class 5 tinned
Continuous temp. (Type 4A)	-40 to +90 °C (EPR / CSP)
Continuous temp. (Type 4C)	-60 to +150 °C (+180 °C peak, Silicone/Glass)
Min. bending radius	6 × OD (fixed & festoon loops)
Max. pulling tension	15 N/mm ² of copper cross-section
Flame retardance	BS EN / IEC 60332-1-2
Standards	BS 6195 (Types 4A, 4C & 4D)

AC test voltage (5 min)	3 / 10 / 16 / 24 kV AC (Cat. 2 / 3 / 4 / 5)
Current rating basis	BS 7671 / ERA 69-30 (free air at 30 °C)
Continuous temp. (Type 4D)	-40 to +110 °C (EVA / EPR)
Short-circuit temperature (5 s)	+250 °C (4A/4D) · +350 °C (4C)
Conductor flexibility	Class 5 flexible tinned copper
Oil & varnish resistance	EN 60811-404 & impregnating varnish resistant
Halogen & smoke (Type 4C/4D)	Halogen-free EVA (4D) & silicone/glass (4C)
Standard packing	ISPM-15 heat-treated timber drums with sealed moisture-proof ends

Sizes

20 standard constructions

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

Order designation Type 4A 90 °C EPR/CSP	Order designation Type 4D 110 °C EVA	Order designation Type 4C 150 °C Silicone	Category & U0/U	Cores × mm ²	Nominal wall mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
Category 2 · 600/1000 V 7 sizes									
☐ BS 6195 Type 4A Cat.2 1×2.5	BS 6195 Type 4D Cat.2 1×2.5	BS 6195 Type 4C Cat.2 1×2.5	Cat.2 · 0.6/1 kV	1 × 2.5	1.4	5.5	24	48	33
☐ BS 6195 Type 4A Cat.2 1×6	BS 6195 Type 4D Cat.2 1×6	BS 6195 Type 4C Cat.2 1×6	Cat.2 · 0.6/1 kV	1 × 6	1.6	7.4	58	98	44
☐ BS 6195 Type 4A Cat.2 1×16	BS 6195 Type 4D Cat.2 1×16	BS 6195 Type 4C Cat.2 1×16	Cat.2 · 0.6/1 kV	1 × 16	1.8	10.2	154	215	61
☐ BS 6195 Type 4A Cat.2 1×35	BS 6195 Type 4D Cat.2 1×35	BS 6195 Type 4C Cat.2 1×35	Cat.2 · 0.6/1 kV	1 × 35	2.0	13.4	336	430	80
☐ BS 6195 Type 4A Cat.2 1×70	BS 6195 Type 4D Cat.2 1×70	BS 6195 Type 4C Cat.2 1×70	Cat.2 · 0.6/1 kV	1 × 70	2.2	17.5	672	810	105
☐ BS 6195 Type 4A Cat.2 1×120	BS 6195 Type 4D Cat.2 1×120	BS 6195 Type 4C Cat.2 1×120	Cat.2 · 0.6/1 kV	1 × 120	2.4	21.6	1,152	1,340	130
☐ BS 6195 Type 4A Cat.2 1×240	BS 6195 Type 4D Cat.2 1×240	BS 6195 Type 4C Cat.2 1×240	Cat.2 · 0.6/1 kV	1 × 240	2.8	29.2	2,304	2,610	175
Category 3 · 1900/3300 V 5 sizes									
☐ BS 6195 Type 4A Cat.3 1×16	BS 6195 Type 4D Cat.3 1×16	BS 6195 Type 4C Cat.3 1×16	Cat.3 · 1.9/3.3 kV	1 × 16	3.2	13.0	154	285	78
☐ BS 6195 Type 4A Cat.3 1×35	BS 6195 Type 4D Cat.3 1×35	BS 6195 Type 4C Cat.3 1×35	Cat.3 · 1.9/3.3 kV	1 × 35	3.2	15.8	336	510	95
☐ BS 6195 Type 4A Cat.3 1×70	BS 6195 Type 4D Cat.3 1×70	BS 6195 Type 4C Cat.3 1×70	Cat.3 · 1.9/3.3 kV	1 × 70	3.2	19.6	672	910	118
☐ BS 6195 Type 4A Cat.3 1×120	BS 6195 Type 4D Cat.3 1×120	BS 6195 Type 4C Cat.3 1×120	Cat.3 · 1.9/3.3 kV	1 × 120	3.2	23.4	1,152	1,450	140
☐ BS 6195 Type 4A Cat.3 1×240	BS 6195 Type 4D Cat.3 1×240	BS 6195 Type 4C Cat.3 1×240	Cat.3 · 1.9/3.3 kV	1 × 240	3.4	30.6	2,304	2,740	184
Category 4 · 3800/6600 V 4 sizes									
☐ BS 6195 Type 4A Cat.4 1×25	BS 6195 Type 4D Cat.4 1×25	BS 6195 Type 4C Cat.4 1×25	Cat.4 · 3.8/6.6 kV	1 × 25	5.0	18.2	240	490	109
☐ BS 6195 Type 4A Cat.4 1×50	BS 6195 Type 4D Cat.4 1×50	BS 6195 Type 4C Cat.4 1×50	Cat.4 · 3.8/6.6 kV	1 × 50	5.0	21.4	480	790	128
☐ BS 6195 Type 4A Cat.4 1×95	BS 6195 Type 4D Cat.4 1×95	BS 6195 Type 4C Cat.4 1×95	Cat.4 · 3.8/6.6 kV	1 × 95	5.0	25.4	912	1,310	152
☐ BS 6195 Type 4A Cat.4 1×185	BS 6195 Type 4D Cat.4 1×185	BS 6195 Type 4C Cat.4 1×185	Cat.4 · 3.8/6.6 kV	1 × 185	5.0	30.8	1,776	2,290	185
Category 5 · 6350/11000 V 4 sizes									
☐ BS 6195 Type 4A Cat.5 1×35	BS 6195 Type 4D Cat.5 1×35	BS 6195 Type 4C Cat.5 1×35	Cat.5 · 6.35/11 kV	1 × 35	7.6	24.8	336	890	149
☐ BS 6195 Type 4A Cat.5 1×70	BS 6195 Type 4D Cat.5 1×70	BS 6195 Type 4C Cat.5 1×70	Cat.5 · 6.35/11 kV	1 × 70	7.6	28.4	672	1,340	170
☐ BS 6195 Type 4A Cat.5 1×120	BS 6195 Type 4D Cat.5 1×120	BS 6195 Type 4C Cat.5 1×120	Cat.5 · 6.35/11 kV	1 × 120	7.6	32.2	1,152	1,920	193
☐ BS 6195 Type 4A Cat.5 1×240	BS 6195 Type 4D Cat.5 1×240	BS 6195 Type 4C Cat.5 1×240	Cat.5 · 6.35/11 kV	1 × 240	7.6	39.0	2,304	3,280	234

- Other BS 6195 cross-sections from 1.5 mm² up to 630 mm² across Categories 2, 3, 4 and 5 are manufactured to order.
- Type 4A (90 °C EPR/CSP), Type 4D (110 °C EVA) and Type 4C (150 °C Silicone + glass braid) share identical BS 6195 radial wall thicknesses per category.

Electrical & current data by cross-section

11 sizes

Conductor CSA mm ²	Max. DC resistance 20 °C, Ω/km	Type 4A (90 °C) A in air	Type 4D (110 °C) A in air	Type 4C (150 °C) A in air
2.5	8.210	36	42	52
6	3.390	63	73	90
16	1.240	115	133	165
25	0.795	152	176	218
35	0.565	188	218	270
50	0.393	234	271	335
70	0.277	292	338	418
95	0.210	354	410	506
120	0.164	412	478	590
185	0.108	540	626	772
240	0.082	642	744	918

– Current ratings are for a single cable in free air at 30 °C ambient; apply derating when bundled inside motor terminal boxes or enclosed ducts.

Standards and approvals

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/bs-6195-type-4a-4c-4d-flexible-coil-lead-and-festoon-cable



Typical values for this cable type, based on BS 6195. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.