

**Thermoset Cross-Linked Elastomer Portable Cords**

2XS / 2XSO

Cross-Linked Elastomer Flexible Cable

UL 62 / CSA C22.2 No. 49 · 600 V · +90 °C XL-elastomer ('XS') · Standard (2XS) or

UL 62 / CSA C22.2

600 V

Cross-Linked Elastomer

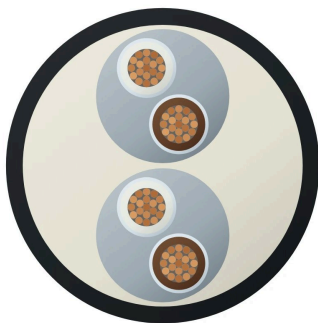
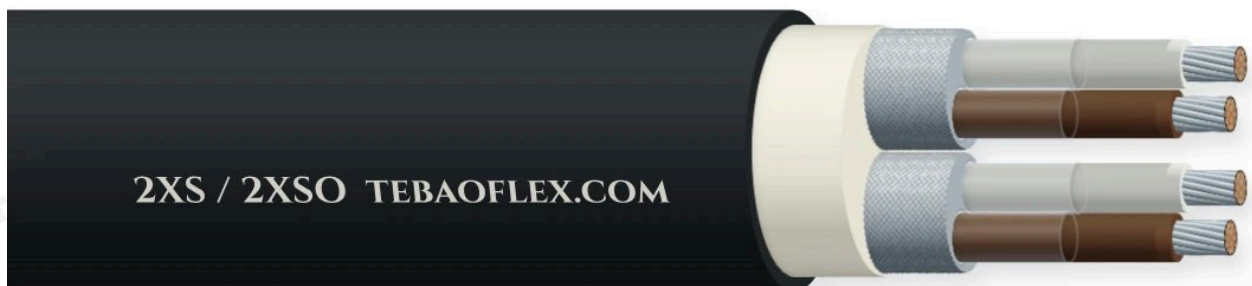


Application

2XS and 2XSO are heavy-duty 600 V flexible portable cords engineered with cross-linked thermoset elastomer ('XS') core insulation and outer jacketing for industrial tools, portable machinery, and motor leads. Type 2XS provides high thermal and abrasion

Typical uses: Machine Tool & Automotive Plants, Industrial Workshop Cord Reels, Portable Power & Lighting Drops, Material Handling & Conveyors, Packaging & Processing Machinery

Construction



Cross-section, not to scale

1	Flexible bunched/rope-lay copper	UL 62 / IEC 60228 Class 5
2	Cross-linked elastomer insulation ('XS')	UL 62 / CSA C22.2 No. 49
3	Cabled core assembly & fillers	UL 62
4	Thermoset elastomer jacket (2XS / 2XSO)	UL 62 / CSA C22.2 No. 49

Technical data

Typical values

Rated voltage	600 V AC (RMS)	Dielectric withstand test	2.5 kV AC for 5 minutes
Insulation resistance constant	≥ 500 MΩ·km at +20 °C	Operating frequency	50 / 60 Hz & DC
Conductor stranding	ASTM Class K / IEC Class 5	Ampacity reference	NEC Table 400.5(A)(1) / CEC
Max. conductor operating temp.	+90 °C continuous	Max. short-circuit temperature	+250 °C (thermoset XL-EPR)
Cold-bend temperature	-40 °C without cracking	Recommended mobile ambient	-35 °C to +80 °C
Soldering iron / hot-surface	Thermoset non-melting insulation	Heat shock test	+150 °C / 1 h without deformation
Min. bend radius (fixed)	5 × overall diameter (D)	Min. bend radius (flexing)	8 × overall diameter (D)
Max. dynamic pulling tension	15 N/mm ² of copper area	Jacket tensile strength	≥ 10.3 MPa unaged
Jacket elongation at break	≥ 250 % unaged	Duty classification	Hard usage (Class 2) portable cord
Oil resistance (2XSO)	Oil-resistant outer jacket ('O')	Flame retardance	UL/CSA FT2 & IEC 60332-1-2
Ozone & corona stability	Ozone-inert XL-EPR core insulation	Abrasion & cut-through	Cross-linked thermoset jacket
Chemical & coolant splash	Resistant to cutting fluids on 2XSO	RoHS / REACH status	Fully RoHS 3 compliant
Standards	UL 62 / CSA C22.2 No. 49		

Sizes

12 standard constructions

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

Order designation	Type & Core Configuration	Phase size mm ²	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Type 2XS — Cross-linked elastomer flexible cord (standard jacket) 5 sizes						
☐ 2XS 3×1.5 (16 AWG)	3G1.5 (16 AWG)	1.5	9.9	43	128	50
☐ 2XS 3×2.5 (14 AWG)	3G2.5 (14 AWG)	2.5	13.4	72	215	67
☐ 2XS 4×2.5 (14 AWG)	4G2.5 (14 AWG)	2.5	14.6	96	265	73
☐ 2XS 4×4.0 (12 AWG)	4G4.0 (12 AWG)	4.0	16.5	154	365	82
☐ 2XS 4×6.0 (10 AWG)	4G6.0 (10 AWG)	6.0	18.4	230	485	92
Type 2XSO — Cross-linked elastomer flexible cord (oil-resistant 'O' jacket) 7 sizes						
☐ 2XSO 3×2.5 (14 AWG)	3G2.5 (14 AWG)	2.5	13.5	72	222	68
☐ 2XSO 4×2.5 (14 AWG)	4G2.5 (14 AWG)	2.5	14.7	96	274	74
☐ 2XSO 4×4.0 (12 AWG)	4G4.0 (12 AWG)	4.0	16.6	154	376	83
☐ 2XSO 4×6.0 (10 AWG)	4G6.0 (10 AWG)	6.0	18.5	230	498	92
☐ 2XSO 4×10 (8 AWG)	4G10 (8 AWG)	10	23.4	384	810	117
☐ 2XSO 4×16 (6 AWG)	4G16 (6 AWG)	16	26.8	614	1,150	134
☐ 2XSO 4×25 (4 AWG)	4G25 (4 AWG)	25	31.2	960	1,680	156

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per UL 62 / CSA C22.2 No. 49 / ICEA S-75-381.

Electrical & ampacity data

12 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Current rating in air (A)	Current rating installed (A)	Mutual C pF/m≈	AC test V _{rms}
3G1.5 (16 AWG)	13.300	22	19	80	2,500
3G2.5 (14 AWG)	7.980	30	26	82	2,500
4G2.5 (14 AWG)	7.980	30	26	82	2,500
4G4.0 (12 AWG)	4.950	40	34	84	2,500
4G6.0 (10 AWG)	3.300	51	43	87	2,500
3G2.5 (14 AWG)	7.980	30	26	82	2,500
4G2.5 (14 AWG)	7.980	30	26	82	2,500
4G4.0 (12 AWG)	4.950	40	34	84	2,500
4G6.0 (10 AWG)	3.300	51	43	87	2,500
4G10 (8 AWG)	1.910	70	60	92	2,500
4G16 (6 AWG)	1.210	93	79	101	2,500
4G25 (4 AWG)	0.780	123	105	114	2,500

– Current ratings apply at +25/+30 °C ambient in free air; apply standard derating factors for elevated ambient or drum coiling.

Standards and approvals

✓ UL 62 / CSA C22.2 No. 49

✓ FT2 / IEC 60332-1-2

✓ CE / RoHS

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

info@tebaoflex.com

Web

tebaoflex.com/cables/2xs-2xso-cross-linked-elastomer-flexible-cable



Typical values for this cable type, based on UL 62 / CSA C22.2 No. 49 / ICEA S-75-381. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.