



Basket spreader cable

3GSLTOE

Screened Collector-Basket Spreader Cable

EMC-screened 0.6/1 kV EPR/PUR gravity-basket spreader cable with bus & FO options



Based on DIN VDE 0250

U0/U 0.6/1 kV

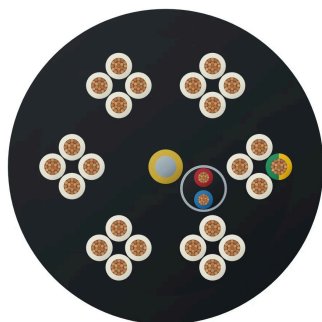
Gravity basket · ≤ 160 m/min

Application

Screened 0.6/1 kV spreader cable for gravity-fed collector baskets up to 160 m/min with Class FS copper cores, 3GI3 EPR insulation (−40 °C), tinned-copper EMC braids, lead/aramid suspension core and black PUR sheath.

Typical uses: Ship-to-shore (STS) container crane collector baskets, RTG, RMG & automated stacking crane (ASC) spreaders, Instrumented twin-lift & tandem-lift spreaders (ASI-Bus / Profibus / FO), Cold-climate marine terminals & bulk-handling grab cranes (to −40 °C)

Construction



Cross-section, not to scale

- 1 Extra-fine flexible conductor
- 2 Core insulation
- 3 EMC tinned copper braid screen
- 4 Central suspension & ballast element
- 5 Bundled core & data/FO lay-up
- 6 Outer sheath

Technical data

Typical values

Rated voltage U ₀ /U	0.6/1 kV (600/1000 V)	Max. operating voltage	0.7/1.2 kV AC · 0.9/1.8 kV DC
AC test voltage	3.5 kV AC for 5 minutes	EMC screening	Tinned Cu braid (≥ 60% on shielded cores, ≥ 80% on twisted pairs; Zt optimized at 30 MHz)
Data & optical elements	Screen-shielded bus pairs (2×1)C (ASI-Bus / Profibus) or G62.5/125, G50/125, E9/125 fibres	Ambient temperature, flexing	−40 to +80 °C (fully flexible basket operation)
Ambient temperature, fixed	−50 to +80 °C	Max. conductor temperature	+90 °C continuous · +250 °C short-circuit
Central suspension element	Aramid threads woven around lead ball cords (safety factor 5 at 50 m vertical suspension)	Hoist travel speed	Up to 160 m/min in gravity-fed collector basket
Collector basket geometry	Min. basket diameter 30 × D · basket height approx. 45 × D · counter-clockwise lay	Min. bending radius (free moving)	101 to 256 mm (~5 × D per DIN VDE 0298-3)
Oil resistance	DIN EN 60811-404 / DIN VDE 0473-811-404 para. 10	Weather, UV & ozone	Ozone, UV and moisture resistant for unrestricted outdoor port duty
Low-temperature flexibility	Cold-grade 3GI3 EPR and special PUR rated to −40 °C dynamic / −50 °C fixed	Standards	Based on DIN VDE 0250 · DIN VDE 0298-3 (bending) · DIN VDE 0298-4 (ampacity)
Standard packing	Heat-treated seaworthy timber drums with sealed end caps		

Sizes

44 standard constructions

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

Model & configuration	Core & data schedule	Cond. Ø mm	OD min mm	OD max mm	Min. bend R mm (moving)	Weight ≈ kg/km	Max. R20 Ω/km	Current A (30 °C)	1 s I _{sc} kA
3GSLTOE-J Control · Metric 12 sizes									
☐ 3GSLTOE-J 48 × 1	48 × 1	1.3	31.1	34.1	171	2,340	19.50	18	0.14
☐ 3GSLTOE-J 24 × 2.5	24 × 2.5	2.0	29.1	32.1	161	1,780	7.98	30	0.36
☐ 3GSLTOE-J 30 × 2.5	30 × 2.5	2.0	31.1	34.1	171	2,260	7.98	30	0.36
☐ 3GSLTOE-J 36 × 2.5	36 × 2.5	2.0	34.5	37.5	188	2,780	7.98	30	0.36
☐ 3GSLTOE-J 42 × 2.5	42 × 2.5	2.0	36.8	39.8	199	3,490	7.98	30	0.36
☐ 3GSLTOE-J 48 × 2.5	48 × 2.5	2.0	41.3	44.3	222	4,040	7.98	30	0.36
☐ 3GSLTOE-J 54 × 2.5	54 × 2.5	2.0	45.5	48.5	243	3,890	7.98	30	0.36
☐ 3GSLTOE-J 24 × 3.5	24 × 3.5	2.4	32.0	35.0	175	2,350	5.55	39	0.50
☐ 3GSLTOE-J 30 × 3.5	30 × 3.5	2.4	34.3	37.3	187	2,970	5.55	39	0.50
☐ 3GSLTOE-J 36 × 3.5	36 × 3.5	2.4	37.9	40.9	205	3,750	5.55	39	0.50
☐ 3GSLTOE-J 42 × 3.5	42 × 3.5	2.4	42.4	45.4	227	4,510	5.55	39	0.50
☐ 3GSLTOE-J 7 × 4	7 × 4	3.0	18.1	20.1	101	670	4.95	41	0.57
3GSLTOE-J + Bus Element 4 sizes									
☐ 3GSLTOE-J 24 × 2.5 + 1 × (2 × 1)C	24 × 2.5 + 1 × (2 × 1)C	2.0	31.1	34.1	171	2,200	7.98	30	0.36
☐ 3GSLTOE-J 24 × 2.5 + 4 × (2 × 1)C	24 × 2.5 + 4 × (2 × 1)C	2.0	41.2	44.2	221	3,600	7.98	30	0.36
☐ 3GSLTOE-J 36 × 2.5 + 2 × (2 × 1)C	36 × 2.5 + 2 × (2 × 1)C	2.0	41.3	44.3	222	3,830	7.98	30	0.36
☐ 3GSLTOE-J 42 × 2.5 + 2 × (2 × 1)C	42 × 2.5 + 2 × (2 × 1)C	2.0	43.5	46.5	233	3,600	7.98	30	0.36
3GSLTOE-J + Integrated FO 18 sizes									
☐ 3GSLTOE-J 24 × 2.5 + 6 × (1G62.5)	24 × 2.5 + 6 × (1G62.5)	2.0	35.6	38.6	193	2,400	7.98	30	0.36
☐ 3GSLTOE-J 24 × 2.5 + 12 × (1G62.5)	24 × 2.5 + 12 × (1G62.5)	2.0	34.5	37.5	188	2,530	7.98	30	0.36
☐ 3GSLTOE-J 30 × 2.5 + 6 × (1G62.5)	30 × 2.5 + 6 × (1G62.5)	2.0	34.5	37.5	188	2,660	7.98	30	0.36

Model & configuration	Core & data schedule	Cond. Ø mm	OD min mm	OD max mm	Min. bend R mm (moving)	Weight ≈ kg/km	Max. R20 Ω/km	Current A (30 °C)	1 s Isc kA
☐ 3GSLTOE-J 32 × 2.5 + 4 × (3E9)	32 × 2.5 + 4 × (3E9)	2.0	35.1	38.1	191	2,700	7.98	30	0.36
☐ 3GSLTOE-J 36 × 2.5 + 6 × (1G62.5)	36 × 2.5 + 6 × (1G62.5)	2.0	36.8	39.8	199	3,360	7.98	30	0.36
☐ 3GSLTOE-J 36 × 2.5 + 6 × (2G62.5)	36 × 2.5 + 6 × (2G62.5)	2.0	36.8	39.8	199	3,360	7.98	30	0.36
☐ 3GSLTOE-J 36 × 2.5 + 6 × (2G50)	36 × 2.5 + 6 × (2G50)	2.0	36.8	39.8	199	3,360	7.98	30	0.36
☐ 3GSLTOE-J 42 × 2.5 + 6 × (1G62.5)	42 × 2.5 + 6 × (1G62.5)	2.0	41.3	44.3	222	3,910	7.98	30	0.36
☐ 3GSLTOE-J 42 × 2.5 + 6 × (2G62.5)	42 × 2.5 + 6 × (2G62.5)	2.0	41.3	44.3	222	3,910	7.98	30	0.36
☐ 3GSLTOE-J 42 × 2.5 + 6 × (2G50)	42 × 2.5 + 6 × (2G50)	2.0	41.3	44.3	222	3,910	7.98	30	0.36
☐ 3GSLTOE-J 42 × 2.5 + 6 × (2E9)	42 × 2.5 + 6 × (2E9)	2.0	41.3	44.3	222	3,910	7.98	30	0.36
☐ 3GSLTOE-J 42 × 2.5 + 6 × (3E9)	42 × 2.5 + 6 × (3E9)	2.0	41.3	44.3	222	3,910	7.98	30	0.36
☐ 3GSLTOE-J 48 × 2.5 + 6 × (2G62.5)	48 × 2.5 + 6 × (2G62.5)	2.0	45.5	48.5	243	3,790	7.98	30	0.36
☐ 3GSLTOE-J 48 × 2.5 + 6 × (2G50)	48 × 2.5 + 6 × (2G50)	2.0	45.5	48.5	243	3,790	7.98	30	0.36
☐ 3GSLTOE-J 48 × 2.5 + 6 × (2E9)	48 × 2.5 + 6 × (2E9)	2.0	45.5	48.5	243	3,790	7.98	30	0.36
☐ 3GSLTOE-J 48 × 2.5 + 6 × (3G62.5)	48 × 2.5 + 6 × (3G62.5)	2.0	45.5	48.5	243	3,790	7.98	30	0.36
☐ 3GSLTOE-J 50 × 2.5 + 4 × (3G50)	50 × 2.5 + 4 × (3G50)	2.0	45.5	48.5	243	3,900	7.98	30	0.36
☐ 3GSLTOE-J 42 × 3.5 + 6 × (1G62.5)	42 × 3.5 + 6 × (1G62.5)	2.4	48.1	51.1	256	4,150	5.55	39	0.50
3GSLTOE-O · 12 AWG 5 sizes									
☐ 3GSLTOE-O 20 × 12 AWG	20 × 12 AWG	2.4	30.2	33.3	167	1,910	5.75	39	0.43
☐ 3GSLTOE-O 24 × 12 AWG	24 × 12 AWG	2.4	31.6	34.6	173	2,360	5.75	39	0.43
☐ 3GSLTOE-O 30 × 12 AWG	30 × 12 AWG	2.4	34.4	37.4	187	2,770	5.75	39	0.43
☐ 3GSLTOE-O 36 × 12 AWG	36 × 12 AWG	2.4	38.1	41.1	206	3,730	5.75	39	0.43
☐ 3GSLTOE-O 42 × 12 AWG	42 × 12 AWG	2.4	42.4	45.4	227	4,500	5.75	39	0.43
3GSLTOE-O · 12 AWG + FO 5 sizes									
☐ 3GSLTOE-O 20 × 12 AWG + 4 × 1LWL	20 × 12 AWG + 4 × 1LWL	2.4	32.0	35.0	175	2,330	5.75	39	0.43
☐ 3GSLTOE-O 34 × 12 AWG + 2 × 1LWL	34 × 12 AWG + 2 × 1LWL	2.4	38.9	41.9	210	3,740	5.75	39	0.43
☐ 3GSLTOE-O 36 × 12 AWG + 6 × 1LWL	36 × 12 AWG + 6 × 1LWL	2.4	43.4	46.4	232	4,740	5.75	39	0.43
☐ 3GSLTOE-O 38 × 12 AWG + 4 × (1G62.5)	38 × 12 AWG + 4 × (1G62.5)	2.4	42.4	45.4	227	4,370	5.75	39	0.43
☐ 3GSLTOE-O 38 × 12 AWG + 4 × 3LWL	38 × 12 AWG + 4 × 3LWL	2.4	42.4	45.4	227	4,370	5.75	39	0.43

- Current carrying capacity values (A) are nominal ratings for cables laid on a surface at 30 °C ambient temperature per DIN VDE 0298-4 Table 15; apply multicore grouping conversion factors according to the number of simultaneously loaded cores.
- Optical fibre designations: 1G62.5 / 2G62.5 / 3G62.5 = 1, 2 or 3 graded-index multimode 62.5/125 µm fibres per element; 2G50 / 3G50 = 2 or 3 graded-index multimode 50/125 µm fibres per element; 2E9 / 3E9 = 2 or 3 single-mode 9/125 µm fibres per element.

Standards and approvals

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

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