



Mining trailing & reeling cables

SANS Type 61A (640/1,100 V)

SANS 1520-1 Type 61A TPU Mining Trailing Cable (640/1,100 V)

640/1,100 V 3-core screened + pilot trailing & reeling cable with TPU sheath



SANS 1520-1 Type 61A

640/1,100 V · TPU Sheath

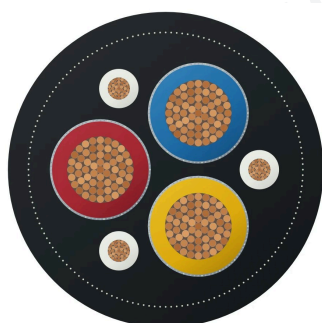
Optional Reflective Tape

Application

South African SANS 1520-1 Type 61A heavy-duty trailing and reeling cable (640/1,100 V) with three tinned-copper/nylon braid-screened EPR power cores, one unscreened pilot core, CR inner sheath and a tear-resistant TPU outer sheath.

Typical uses: Underground coal shuttle cars, Continuous miners & roadheaders, Electric LHD scooptrams, Mobile feeder-breakers, High-visibility haulageway reels, Hard-rock jumbo drill rigs

Construction



Cross-section, not to scale

1	Power conductors (3)	SANS 1411-1
2	Power core insulation	SANS 1411-3
3	Individual phase screens (3)	
4	Pilot core (1)	
5	Inner sheath	SANS 1411-3
6	Reinforcement braid	SANS 1520-1
7	Outer sheath (TPU)	SANS 1520-1 · ICEA S-75-381 Tab. 3-3

Technical data

Typical values

Rated voltage U ₀ /U	640/1,100 V AC (SANS 1520-1 Type 61A heavy-duty trailing & reeling cable)	Current rating (30 °C)	130 to 390 A laid out straight (295 A for 95 mm ² reference size)
Individual phase screens	Composite tinned copper / nylon braid screen over each EPR power core (0.31 mm wires, 43 mm ² on 95 mm ²)	Pilot core	1 × unscreened EPR-insulated pilot core (10 to 25 mm ² ; 16 mm ² on 95 mm ²) laid up in interstice
Operating temperature range	−25 °C to +90 °C	Max. conductor temperature	+90 °C continuous · +250 °C short-circuit (1 s)
Min. bending radius	6 × OD (reeling and non-reeling mobile mining duty)	Outer & inner sheath system	CR polychloroprene inner sheath + 16-string open nylon braid + TPU thermoplastic polyurethane outer sheath
High-visibility reflective option	Black TPU or transparent TPU over orange/silver reflective tape for dark underground headings	Cut, tear & rock abrasion	TPU outer sheath provides superior tear, rock-cut and shuttle-car run-over resistance vs standard CR
UV, ozone & oil resistance	UV resistant, ozone resistant, sunlight resistant and oil resistant	Standards	SANS 1520-1 · SANS 1411-1 · SANS 1411-3 · ICEA S-75-381 Tab. 3-3

Sizes

7 standard constructions

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

Designation 3P + 1Pilot	Power mm ²	Power Ø mm	Screen area mm ²	Pilot mm ²	Pilot Ø mm	Max. tension kN	Nominal OD mm	Mass ≈ kg/km	Current (30 °C) A	Sym. S/C (1 s) kA
☐ Type 61A · 3 × 25 + 1 × 10 mm ²	25	6.8	25	10	4.2	1.1	40.5	2,850	130	3.1
☐ Type 61A · 3 × 35 + 1 × 10 mm ²	35	8.5	27	10	4.2	1.6	43.5	3,320	160	4.3
☐ Type 61A · 3 × 50 + 1 × 10 mm ²	50	10.3	32	10	4.2	2.3	47.0	4,050	200	6.1
☐ Type 61A · 3 × 70 + 1 × 16 mm ²	70	11.9	37	16	5.3	3.2	53.0	5,120	245	8.5
☐ Type 61A · 3 × 95 + 1 × 16 mm ²	95	13.5	43	16	5.3	4.3	59.1	6,340	295	11.6
☐ Type 61A · 3 × 120 + 1 × 16 mm ²	120	15.5	47	16	5.3	5.4	63.0	7,450	345	14.6
☐ Type 61A · 3 × 150 + 1 × 25 mm ²	150	17.3	52	25	6.8	6.8	67.5	8,750	390	18.3

- 95 mm² row (59.1 mm OD, 6,340 kg/km, 4.3 kN max tension, 43 mm² screen, 16 mm² pilot) is directly from the TEBAOFLEX Type 61A datasheet; companion SANS 1520-1 sizes (25–150 mm²) are typical SANS 1520-1 values.
- Available with black TPU outer sheath or transparent TPU over orange/silver reflective tape.

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/type-61a-cable-sans



Typical values for this cable type, based on SANS 1520-1 · SANS 1411-1 & -3. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.