



12/24/48-channel geophone seismic spread cable

Shallow Refraction Seismic Spread Assembly

12, 24 & 48-channel polyaramid-reinforced seismic refraction & MASW takeout cable



12 / 24 / 48 Twisted Pairs

NK-27 / 61-Pin Bayonet

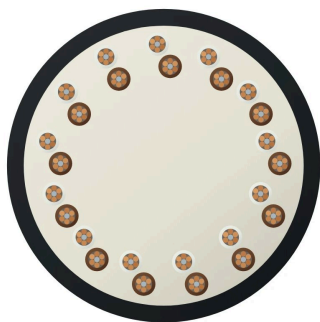
Mueller / KCK / Kooter

Application

Multi-channel shallow seismic refraction and MASW geophone spread cable with 12, 24 or 48 twisted pairs, moulded Mueller, KCK split-spring or waterproof Kooter takeouts at 1–10 m pitch, and NK-27 / 61-pin bayonet plugs.

Typical uses: Shallow Seismic Refraction (Bedrock Depth), MASW & ReMi Shear-Wave Velocity Profiling, Geotechnical Foundation & Tunnel Investigation, Landslide & Dam Abatement Seismic Surveys, UXO & Archaeological Shallow Reflection

Construction



Cross-section, not to scale

- 1 Hybrid tinned-copper / copper-clad-steel (CCS) conductors
- 2 Low-capacitance PP / PE pair insulation
- 3 Central polyaramid strength member
- 4 Optional electrostatic Al/PET shield
- 5 Arctic-flexible polyether PUR outer sheath

Technical data

Typical values

Channel capacity	12, 24 or 48 differential geophone pairs (+ optional trigger pair)	Conductor loop resistance	≤ 140 Ω/km per pair (≤ 70 Ω/km single conductor)
Insulation resistance	≥ 5,000 MΩ·km at 500 V DC	Mutual capacitance	≤ 55 pF/m within twisted pair
Crosstalk attenuation	≥ 80 dB at 10–500 Hz	Field operating temperature	–40 °C to +80 °C
Cold-bend flexibility	IEC 60811-504 at –40 °C	Standard takeout intervals	1 m, 2 m, 3 m, 5 m, 10 m (plus 5–10 m lead-in tails)
Geophone takeout interfaces	Dual Mueller clips, KCK (split-spring), Kooter or Wokcki	Seismograph connectors	61-pin MIL-DTL-26482 bayonet, NK-27-21C (27-pin), or 32-pin
Tensile breaking load	2.0 kN (12/24-ch) · 3.5 kN (48-ch / heavy-duty)	Min. bend radius	6 × OD
Moisture & mud sealing	IP67 (KCK) / IP68 (Kooter moulded takeouts)	Abrasion resistance	DIN ISO 4649 ≤ 35 mm ³ polyether PUR
Standards	ASTM D5777		

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	Channels & Takeout Type	Pitch m	Total Len m	End Connectors	Cable OD mm	Total Wt kg	Break Load kN
12 & 24-Channel Geophone Spread Cables (NK-27-21C & 61-Pin Bayonet Standard) 7 sizes							
☐ SRS-12C-3M-KCK-NK27	12-Ch KCK Split-Spring	3 m	45	2 × NK-27-21C	7.6	4.2	2.0
☐ SRS-12C-5M-KCK-NK27	12-Ch KCK Split-Spring	5 m	70	2 × NK-27-21C	7.6	6.1	2.0
☐ SRS-24C-2M-KCK-61P	24-Ch KCK Split-Spring	2 m	56	61-Pin Bayonet Female	9.4	6.8	2.5
☐ SRS-24C-3M-KCK-61P	24-Ch KCK Split-Spring	3 m	80	61-Pin Bayonet Female	9.4	9.2	2.5
☐ SRS-24C-5M-KCK-61P	24-Ch KCK Split-Spring	5 m	130	61-Pin Bayonet Female	9.6	14.5	2.5
☐ SRS-24C-5M-MUELLER-61P	24-Ch Dual Mueller Clips	5 m	130	61-Pin Bayonet Female	9.6	15.1	2.5
☐ SRS-24C-10M-KCK-61P	24-Ch KCK Split-Spring	10 m	250	61-Pin Bayonet Female	9.8	26.8	3.0
Waterproof Kooter & 48-Channel Roll-Along Seismic Spread Cables 5 sizes							
☐ SRS-24C-2M-KOOPER-61P	24-Ch Waterproof Kooter	2 m	56	2 × 61-Pin (M/F Roll)	9.6	7.4	2.5
☐ SRS-24C-5M-KOOPER-61P	24-Ch Waterproof Kooter	5 m	130	2 × 61-Pin (M/F Roll)	9.8	15.6	3.0
☐ SRS-24C-10M-KOOPER-61P	24-Ch Waterproof Kooter	10 m	250	2 × 61-Pin (M/F Roll)	10.0	28.4	3.0
☐ SRS-48C-2M-KOOPER-2X61P	48-Ch Waterproof Kooter	2 m	106	61-Pin Roll-Along	12.2	18.9	3.5
☐ SRS-48C-5M-KOOPER-2X61P	48-Ch Waterproof Kooter	5 m	255	61-Pin Roll-Along	12.5	42.5	3.5

– Double-ended cables with 61-pin Male/Female or reversible pinouts support continuous roll-along reflection and MASW surveying.

Standards and approvals

- ✓ ASTM D5777 Seismic Refraction Survey Compliant
- ✓ MIL-DTL-26482 61-Pin Bayonet & NK-27 Compatible

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/multi-channel-shallow-refraction-geophone-seismic-spread-takeout-cable-assembly



Typical values for this cable type, based on ASTM D5777 / MIL-DTL-26482 / MIL-DTL-55116. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.