

Connecting Globally

Mining Cables



Mining Cables

TELE-FONIKA Kable, the largest cable producer in Central and Eastern Europe and among the largest in Europe, is a leading force in mining cable production.

As a prominent cable producer in Central and Eastern Europe and a major player in Europe, TELE-FONIKA Kable holds a leading position in mining cable production. With over 60 years of experience, the company is recognized globally, serving markets in Europe, Australia, South and North America, Africa, the Middle East, and the Far East.

with over two dozen dedicated lines for continuous vulcanization, twisters, braiders, and more. Our advanced production ensures diversity in materials, including polyurethane sheaths known for exceptional tear resistance. Our cables adhere to international standards such as DIN VDE (German), BS (British), ICEA, ASTM (American), NFC (French), SANS (South African), AS/NZS (Australian) and other widely recognized harmonized standards.

Leveraging decades of experience, TELE-FONIKA Kable offers a variety of proprietary material mixes like CPE (CM), CR (PCP), CSM, TPU. These choices allow for customized cables that meet the unique demands of mining operations, ensuring optimal performance in challenging conditions.

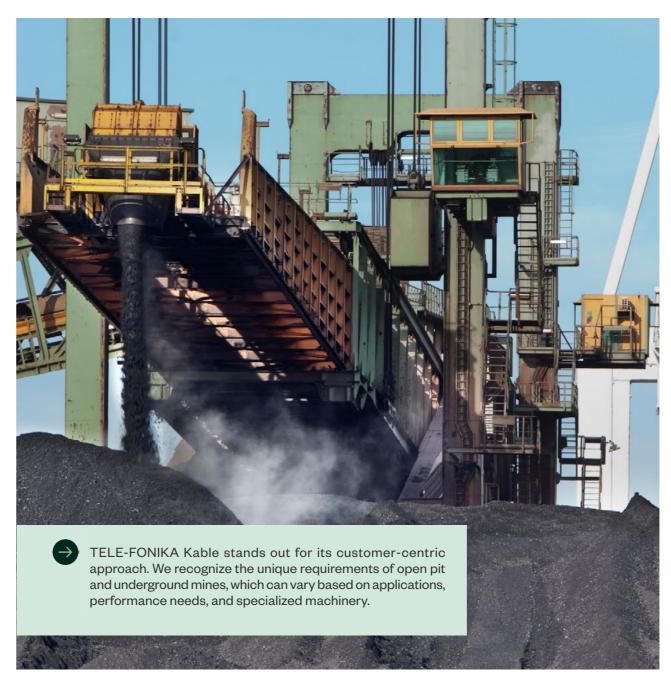
TELE-FONIKA Kable's mining cables meet various working TFKable Group specializes in rubber-insulated cables conditions, from mid-heavy to extra-heavy duty standards like 5GM3, 5GM5, RS4, RS6, and more. Engineered for extreme mechanical performance, they offer long durability, enhanced efficiency, superb reliability, and reduced maintenance. Resistant to chemicals, climate challenges. and crafted with flame-retardant rubber sheaths, they TELE-FONIKA Kable excels in mining cable production ensure the longest and safest operation in heavy-duty conditions within mines and industrial environments.

> At TFKable's Kraków Plants, our cutting-edge testing facilities showcase our commitment to quality in mining cable production:

- Type Testing Lab: Ensures cables meet industry standards for reliability in diverse environments.
- Calibration Lab: Maintains precision for cable consistency and reliability.
- Chemical Lab: Validates cable resistance, ensuring durability in mining environments.
- Fire Test Lab: Rigorously assesses flame retardancy, prioritizing safety.
- Extra High-Speed Cables Lab: Develops flexible cables for specialized mobile solutions.

widely used in mining. Our labs, including one for rubber compound development and a modern CCV line for rubberisolated crane cables, underscore our dedication to highperformance and safety-oriented mining cables.





Customizable to specific needs, these cables can incorporate optical fiber, pilot, and monitoring cores, offering tailored solutions for customers. TELE-FONIKA Kable's trailing and coal cutter cables ensure a consistent power supply in challenging mine conditions, from material strain to climatic variations and explosion risks. Renowned for extreme mechanical performance, durability, and compliance with safety standards, these mining cables set the industry standard globally, showcasing TELE-FONIKA Kable's commitment to innovation and excellence.

Unique features of TFKable mining cables:

- Robust Reliability: Designed for dependable performance in challenging mining environments.
- Versatile Resistance: Exhibits resistance to high temperatures, humidity, UV radiation, tearing, abrasion, twisting, bending, water, oils, and various chemicals.
- Flame Retardant: Complies with safety standards for flame retardancy.
- Continuous Operation: Ensures continuity in both underground and surface mining
- Enhanced Visibility: Incorporates features like reflective cables for increased visibility over distances.

TFKable's mining cables showcase their worldwide reach, emphasizing their specially tailored applications that can be matched with any kind of mine and the most demanding environments.

Mining power cables

For over 60 years, we have been providing broadly applicable and reliable power cables with a cross-linked polyethylene sheath for Polish and foreign mines. Their production is carried out in the Krakow-Wielicka Plant. In total, we have produced ca. 1,600 km. from Krakow to London in a straight line, and then to our next JDR Plant - Littleport.

REM Tunnel project (Réseau express métropolitain), Canada

This project base on was a high-profile light The long-standing supply of our proven. We have produced in more than 1,600 km. metro rapid transit system under construction mining structures to the Australian in the Greater Montreal area in Quebec, Canada. The requirement was for a cable with CSA approval that would be capable of in Sydney. The Krakow-Wielicka Plant supplying power to a tunnel boring machine manufactured and supplied 14 km of TYPE which would allow us to connect the route for a key tunnel for this project. TFKable was 241.1 mining and over 40 km of H07RN-F successful in having our SHDGC8KV1/0- SUB cables used for both the construction 3CSA-ORG cable approved by the Quebec and cabling of the tunnel itself. The tunnel performance cables are installed by global provincial government and delivered under rush conditions including air transport in part districts to the city centre and airport. to complete this project.

Westconnex Tunnel.

market enabled us to join the project for the construction of a 33 km long tunnel will connect Sydney's northern and western

Heavy-duty flexible dirty water pump cable

Copper wires with diameters no bigger than human hair and developed in-house extremely flexible and resistive against mechanical damage. Because of superior pump producers on all continents especially in Ireland, the US, the Middle and the Far East and Europe.

TELE-FONIKA Kable distinguishes itself with a customer-centric approach. We understand the distinct needs of open-pit and underground mines, which can vary based on applications, performance requirements, and specialized machinery.



MINING CABLES



Top features:

- ☑ Designed for Extreme **Mining Environments**
- ☑ High Tensile Strength
- ☑ High Abrasion Resistance
- ☑ High Tear Resistance
- ☑ Resistance to Oils and Chemicals
- ☑ Flame Retardant

Tailored cable solutions for underground and open-pit mines

UNDERGROUND MINE

UNDERGROUND MINE	OPEN-CAST MINING
Mining Shearer/Harvester	Dragline/Dredger
Shuttle Car	Continuous Miner
Dragline/Dredger	Shuttle Car
Drilling Jumbo, Crawler Drill Machine	Blast Hole Driller
Pumps	Cutter, Reclaimer
Roof Bolter	Submersible Pumps/Dredging
LHD, Scoop, Lader	Loading Machines
Mine Power Feeder Vertical	















Submersible Pumps/

Dredging













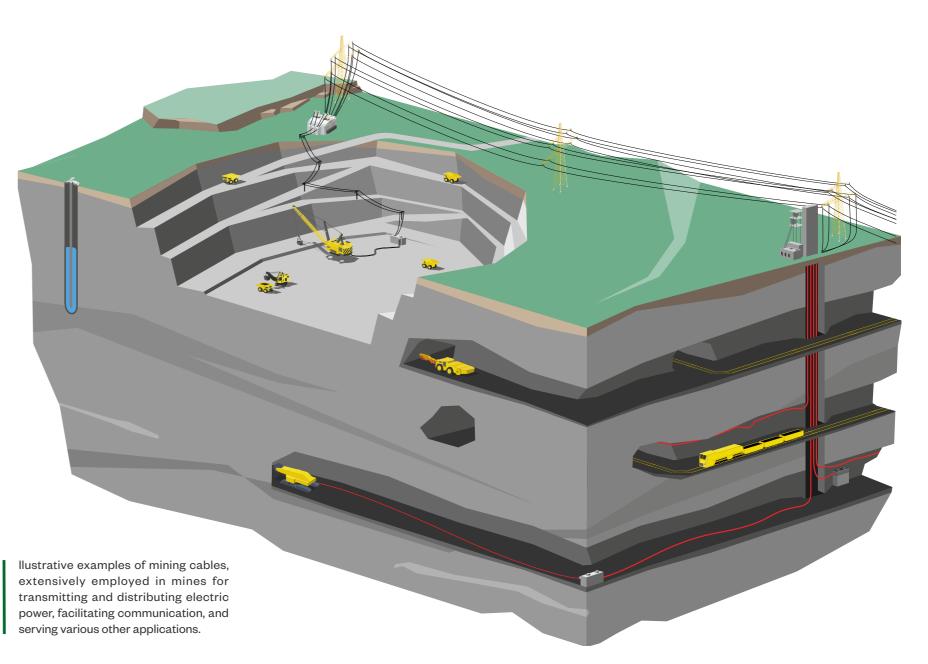


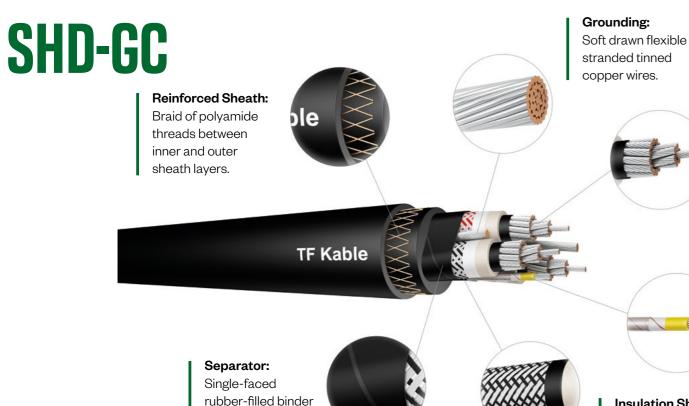
Loading Machines





Mine Power Feeder Horizontal





Insulated Power Cores:

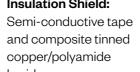
Soft drawn extra flexible stranded tinned copper power cores covered by conductor screen, under EPR insulation.

Ground Check:

Insulation Shield:

braid.





BRT Orange

Yellow PP insulated soft drawn flexible stranded tinned copper wires.













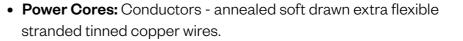












- Conductor Screen: Semi-conductive tape and semi-conductive layer over the conductor.
- Insulation: Ethylene-propylene rubber (EPR).
- Insulation Shield: Semi-conductive tape and composite tinned copper/polyamide braid (minimum 60% coverage).
- Circuit Identification: Polyamide in the shielding braid, available in black, white, red.
- Grounding: Soft drawn flexible stranded tinned copper wires.
- Ground Check: Yellow PP insulated soft drawn flexible stranded

- Assembly: Three power, ground check, and two non-insulated grounding conductors cabled together for a round cable core.
- **Separator:** Single-faced rubber-filled binder tape over the core.
- Inner Sheath: Extra heavy-duty, high torsion-resistant, integral filled, polychloroprene (CR) thermosetting compound manufactured by TFKable.
- Reinforcing Braid: Braid of polyamide threads between inner and outer sheath.
- Outer Sheath: Extra heavy-duty, high torsion-resistant, integral filled, polychloroprene (CR) thermosetting compound manufactured by TFKable.

Dedicated cable coating material and color examples

tape over the core

CLR RFT Tape

BRT Blue TF Kable



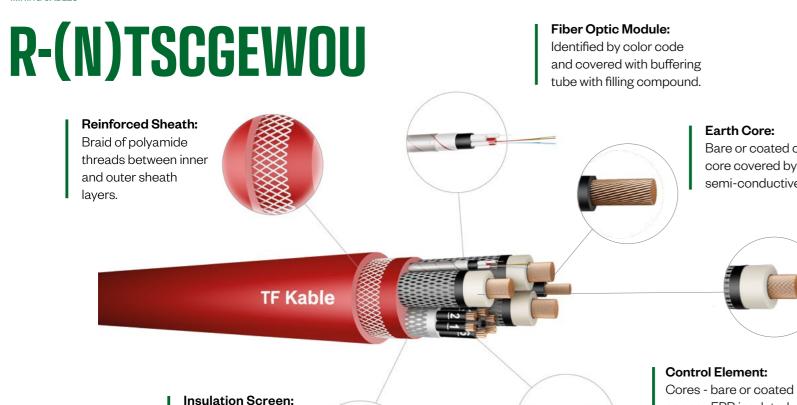


RUBBER: CPE (CM); CR (PCP); CSM

TF Kable

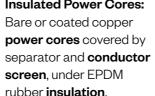








Bare or coated copper core covered by semi-conductive layer.



copper, EPR insulated conductors, white or black with numbers. Screen - braid or wrap.

Insulated Power Cores: Bare or coated copper **power cores** covered by

























- Power Cores: Annealed flexible stranded tin-coated or bare copper conductor, opposite-lay with special length of lay.
- Separator: The wrap of semi-conductive tape between the power conductor and insulation and between earth conductor and semiconductive layer.
- Conductor Screen: Semi-conductive layer of special rubber, manufactured by TFKable.
- Insulation: Special EPDM rubber, halogen-free, lead-free compound, exceeding type 3GI3, manufactured by TFKable.
- Insulation Screen: Strippable layer of extruded semi-conductive compound manufactured by TFKable, composite tinned copper/ polyamide braid.

Earth Core: Tin-coated or bare copper with extruded special semiconductive rubber compound manufactured by TFKables.

- Control element: Tin-coated or bare copper, EPR insulated conductors screened or wrapped.
- Fiber Optic Module: Identified by color code and covered with buffering tube with filling compound.
- Core Arrangement: Power cores, earth core, control element and FO laid up around conductive filler in the center with anti-adhesion graphite over assembled cores.
- Inner Sheath: Special synthetic thermosetting compound type 5GM3.
- Reinforcing Braid: Braid of polyamide threads between inner and outer sheath lavers.
- Outer Sheath: Special synthetic thermosetting compound 5GM5 type, manufactured by TFKable.

Dedicated cable coating material and color examples

Extruded semi

conductive layer,

composite tinned

copper/polyamide

braid.

RUBBER: CPE (CM): CR (PCP): CSM CLR RFT Tape **BRT Blue BRT Orange TF Kable**

MINING CABLES -

DIN VDE Standard







NON APPLICABLE	Ε

NON APPLICABLE

DESCRIPTION AN	ID FEATURES						APPLICATI	ION							*
Cable range		Genaral construction	Description	Main Features		<i>f</i>	$\sqrt{\mathbf{Q}}$		- 			<u></u>	of A		
Cable Name	Model				Standard	Rated Voltage	Trailing	Reeling	Vertical reeling	Festoon	Drag Chain	Semi- Fixed or Fixed	Submersi- ble Pumps / Dredging	Control & Communi- cation	Tuneling / Shaft
R-(N)TSCGEWOU	* Spale	Three power and three protective-earth conductors screened or unscreened, semi-conductive filler in the center, braid-reinforced CR sheath.	Specially designed flexible cable suitable to encounter environmental and mechanical stresses inherent in mining industry.	Excellent flexibility High tear, impact, and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	Based on DIN VDE 0250-813	3.6/6- 18/30kV			I						
R-(N)TSKCGEWOL		Three power and three protective-earth conductors, semi-conductive filler in the center, braid laid directly on core assembly, CR sheath.	Specially designed flexible cable suitable to encounter environmental and mechanical stresses inherent in mining industry. Internally reinforcement against core damage.	Excellent flexibility High tear, impact, and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	Based on DIN VDE 0250-813	3.6/6- 18/30kV			I						
T-(N)TSCGEWOU	77 5000	Three power and three protective-earth conductors, semi-conductive filler in the center, braid laid directly on core assembly, CR sheath.	Specially designed flexible cable suitable to encounter environmental and mechanical stresses inherent in mining industry. Proper for dragging.	Excellent flexibility High tear, impact, and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	Based on DIN VDE 0250-813	3.6/6- 18/30kV									
F-(N)TSCGEWOU		Three power and three protective-earth conductors, central rubber filler, CR sheath.	Specially designed cable for fixed installation in demanding mining environment.	High tear, impact and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	Based on DIN VDE 0250-813	3.6/6- 18/30kV			I						
W-(N)TSCGEWOU	TANK	Three power and three earth conductor screened or unscreened, synthetic special waterproofing inner sheath under CR outer sheath.	Special flexible power supply cable for use in water including sewage, salt water in demanding mining environment.	High water, tear, impact and abrasion resistance UV, sunlight, ozone, oil resistant	Based on DIN VDE 0250-813	3.6/6- 18/30kV			I						
(N)TMCGCWOU (N)TMCWOU	17 KARNE SPANE	Single flexible core, concentric wrap or braid screened insulation, CR outer jacket.	Flexible single core cable with concentric wrap or braid screen.	Moisture resistant and flame retardant Very good weather and oil resistance, easy treatment	Based on DIN VDE 0250-813	3.6/6- 18/30kV									
(N)TMCGETMPU	T Kota	Three power and three protective-earth conductors, Extra heavy duty TPU sheath.	Portable mining trailing cable dedicated for operation in extreme conditions where high mechanical stress is involved. Proper for applications where equipment is supplied with electrical power by	High abrasion and tear resistance Oil resistant	Based on DIN VDE 0250-813	3.6/6- 18/30kV									

- MINING CABLES



DESCRIPTION AN	ID FEATURES						APPLICA	TION							
Cable range		Genaral construction	Description	Main Features		*	$\sqrt{\mathbf{C}}$		Ⅎ■₩			1	o's	#•	
Cable Name	Model				Standard	Rated Voltage	Trailing	Reeling	Vertical reeling	Festoon	Drag Chain	Semi- Fixed or Fixed	Submersi- ble Pumps / Dredging		Tuneling / Shaft
(N)GRDGÕU	17 KANG	Single or multiple insulated and wrapped power cores, synthetic thermoset sheath.	Flexible cable resistant for high mechanical stresses. Suitable for festooning systems and connecting movable parts of machines.	High flexibility Oil, UV, ozone resistant	Based on DIN VDE 0250-814	0.6/1kV									
NGFLGOU	17 Kole	Three or more rubber insulated cores, rubber outer sheath.	Flat, rubber insulated and sheathed cable.	High flexibility Oil, UV, ozone resistant	Based on DIN VDE 0250-809	0.3/0.5kV									
NSSHOU	7 666	Screened or unscreened power cores and pilot cores, reinforcing tape, CR outer sheath.	Specially designed flexible cable suitable to encounter environmental and mechanical stresses inherent in mining industry. Proper for dragging.	Excelent water, tear, impact and abrasion resistance UV, sunlight, ozone, oil resistant	Based on DIN VDE 0250-812	0.6/1kV									
NSHTOU-J	7 600	Three or more rubber insulated conductors, braid reinforced CR sheath.	Special rubber insulated and sheathed flexible cables for hoisting and hauling equipment.	Tear, abrasion, impact resistant Water resistant and flame retardant	Based on DIN VDE 0250-814	0.6/1kV									
(N)3GHSSYCY/ (N)3GHSSHCH	77000	Three copper screened power cores with interstitial insulated pilot cores, filling rubber and internal covering, concentric screen under internal sheath, steel wire armor, LSZH outer sheath.	Flexible power cable for the connection of MV equipment, in hazardous environments of mines and underground excavations.	Flame retardant, halogen free Excellent weather resistance	Based on: DIN VDE 0250 p. 605	6/10- 12/20 kV									
FOMFLEX		Two gel-filled fiber optics tubes, dielectric rods, covered by inner TPE sheath, the wrap of glass tape, kevlar braid, special thermosetting OR rubber.	Rubber sheathed flexible cable for data transmission, immune to elec- tromagnetic interference with special application requirements on mobile materials handling equipment.	netic interference • Flame retardant	EN 60794-3										
H07RN-F/SUB	17 Kabin	Single or multiple rubber insulated and wrapped power cores , synthetic thermoset double layer sheath.	Power and control rubber cable suitable for many general and industrial use.	High flexibility Oil, UV, ozone resistant	EN 50525-2-21	0.45/0.75kV									

MINING CABLES -

AS Standard









DESCRIPTION A	AND FEATURES						APPLICATI	ON							
Dable range	TATORES	Genaral construction	Description	Main Features		#	$\sqrt{\mathbf{C}}$		- 		-	<u></u>	Q ¹ f		
Cable Name	Model				Standard	Rated Voltage	Trailing	Reeling	Vertical reeling	Festoon	Drag Chain	Semi- Fixed or Fixed	Submersi- ble Pumps / Dredging	Control & Communi- cation	Tunelin Shaft
ГҮРЕ 240	Tr Kath	Three screened power cores laid up with three pilots on cradle separator. Thermoset extra heavy duty sheath. Polyamide braid between sheath layers as an option.	Flexible copper screened mining cable with three pilots for general use for wide range of mining applications.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 1802	1.1/1.1- 11/11kV									
TYPE 241	17 Kaba (1997)	Three screened power and three earth cores laid up on cradle separator with central pilot core, internal semi-conductive thermoset sheath, reinforcement, extra heavy duty thermoset sheath.	Specially designed cable for various mining uses, like feeder, pump or power supply cable. Semi-conductive protection providing safety in case of sheath damage.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 1802	1.1/1.1- 11/11kV									
YPE 245	19 Kala	Three screened power and three earth cores laid up on cradle separator with central pilots, internal semi-conductive sheath, reinforcement, extra heavy duty thermoset sheath.	Special flexible rubber screened mining cables with 3 pilots in the cradle separator.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 1802	1.1/1.1kV- 3.3/3.3kV									
-YPE 275	75 5000	Three insulated power and three earth cores laid up on oradle separator with central pilot core, internal semiconductive thermoset sheath, reinforcement, extra heavy duty thermoset sheath.	Flexible overall semi-conductive rubber screened mining cables for underground mining. Semi-conductive protection providing safety in case of sheath damage.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 1802	1.1/1.1kV									
YPE 409	19 KANS	Three screened power cores laid up on cradle separator with central pilot core, extra heavy duty thermoset sheath.	Extra flexible copper screened mining cable with central pilot designed mainly for trailing.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 2802	1.1/1.1kV- 22/22kV									
YPE 440	Trans	Three screened power and three pilot cores laid up on cradle separator, extra heavy duty thermoset sheath.	Extra flexible copper screened mining cable with 3 pilots designed mainly for trailing especially in long runs.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 2802	1.1/1.1kV- 22/22kV									
YPE 209	17 Kabin	Three screened power cores laid on cradle separator with central pilot core, thermoset extra heavy duty sheath.	Flexible copper screened mining cable for general use for wide range of mining applications.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil	AS/NZS 1802	1.1/1.1- 11/11kV									

MINING CABLES



DESCRIPTION A	ND FEATURES						APPLICATI	ION							
Cable range		Genaral construction	Description	Main Features		*	$\sqrt{\mathbf{Q}}$		- ■ 			1	of A	#(:	
Cable Name	Model				Standard	Rated Voltage	Trailing	Reeling	Vertical reeling	Festoon	Drag Chain	Semi- Fixed or Fixed	Submersi- ble Pumps / Dredging	Communi-	Tuneling/ Shaft
TYPE 2S	Ti Kable	Power and pilot cores. Individual or collective screen, synthetic CPE heavy duty sheath.	Special, copper screened rubber cable designed for machines, or machine-to-equipment wiring. Also suitable for longwall lighting.	Flexible Flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 1972	0.6/1kV									
TYPE 450	T KAN	Three screened power, two earth and one pilot core laid up on the rubber center filler.	Extra flexible copper screened general purpose mining cable for slow reeling and trailing applications.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 2802	1.1/1.1kV- 22/22kV									
TYPE 455	Troop Troop	Three screened power, two earth and one pilot core laid up on the rubber center filler. Double layer extra heavy duty thermoset sheath, braid of polyamide yarns between layers of sheath.	Flexible semi-conductive screened mining cable with two earth and one pilot core.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 2802	1.1/1.1kV- 3.3/3.3kV									
ТҮРЕ А	77 Kalin	Three screened power cores laid up on rubber filler. Interstitial three double layer insulated pilot cores, synthetic CPE compound.	EPR insulated, screened and CPE sheathed Feeder Cable, suitable for usage in areas in which electromagnetic interference fields may have an influence on the surroundings.	Flexible Flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 1972	1.1/1.1kV									
TYPE 441	T COS TO THE TOTAL PROPERTY OF THE TOTAL PRO	Three screened power and three earth cores laid up on cradle separator with central pilot core, internal semi-conductive thermoset sheath, reinforcement, extra heavy duty thermoset sheath.	Extra flexible copper screened mining cable with central pilot designed mainly for trailing with special sheath reinforcement for cut and tear resistance.	Excellent flexibility Water resistant and flame retardant UV, sunlight, ozone, oil resistant	AS/NZS 2802	1.1/1.1kV- 22/22kV									
EMV	4 dai:	Power and earth cores, internal jacket, concentric screen, outer jacket a synthetic thermosetting compound type HD-85-PCP.	Special rubber motor power supply cables with single or double screen suitable for usage in areas in which electromagnetic interference fields may have an influence on the surrounding.	Electromagnetic compatibility Flame retardant UV, sunlight, ozone, oil resistant	Based on VDE 0250-812	1.1/1.1kV									

MINING CABLES -

SANS Standard







DESCRIPTION A	ND FEATURES						APPLICATI	ON							
Cable range		Genaral construction	Description	Main Features		#	$\sqrt{\mathbf{Q}}$		- ■ 	$\overline{\mathbb{M}}$	-	<u></u>	of A	#(-	
Cable Name	Model				Standard	Rated Voltage	Trailing	Reeling	Vertical reeling	Festoon	Drag Chain	Semi- Fixed or Fixed	Submersi- ble Pumps / Dredging		Tuneling / Shaft
YPE 31	17 Kable	Two screened power cores and one unscreened pilot. RS4 sheath.	Ancillary equipment cable excellent for movable electric apparatus and electrically driven machines in hazardous areas.	Excellent flexibility Flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-1	0.64/1.1kV									
YPE 41	77 6400	Three screened power cores and one unscreened pilot. RS4 or RS6 reinforced sheath.	Flexible water blocked cable excellent for movable electric apparatus and electrically driven machines in hazardous areas.	Excellent flexibility Flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-1	0.64/1.1kV									
YPE 61 A	TF Kable	Three screened power cores and three unscreened pilot, semi-conductive cradle center, reinforcement. RS4 or RS6 sheath.	Flexible Electric Trailing Cables for use in mines - reeling cables.	Excellent flexibility Flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-1	0.64/1.1kV									
YPE 61B	TF Kable	Three screened power cores and three unscreened pilot, semi-conductive rubber filler, reinforcement. RS4 or RS6 sheath.	for use in mines. Suitable for	Excellent flexibility Flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-1	0.64/1.1kV									
YPE 63	T FAME (TOTAL TOTAL TOTA	Three screened power cores and three unscreened pilot, semi-conductive oradle center, reinforcement. RS4 or RS6 sheath.	Flexible copper screened mining cables designed for trailing. Suitable for reeling and non-reeling industrial applications as well as portable equipment.	Excellent flexibility Abrasion, tear resistant and flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-1	1.9/3.3kV									
YPE 66 & YPE 66EOC	TI KAMA	Three tinned copper/nylon-braid screened power cores and three unscreened pilot cores (alternatively, one pilot can be replaced with a tinned ECC conductor) laid up around semi-conductive filler center.	cables designed for trailing. Suitable for reeling and non-	Excellent flexibility Abrasion, tear resistant and flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-2	3.8/6.6kV									

- MINING CABLES



DESCRIPTION AN	ID FEATURES						APPLICATI	ON							
Cable range		Genaral construction	Description	Main Features		#	$\sqrt{\mathbf{Q}}$		- ■II -				Q ¹ /	#4 5	
Cable Name	Model				Standard	Rated Voltage	Trailing	Reeling	Vertical reeling	Festoon	Drag Chain	Semi- Fixed or Fixed	Submersi- ble Pumps / Dredging		Tuneling / Shaft
Trackless	Train	Three tinned copper/nylon braid screened power cores and two unscreened pilot core and one tinned earth conductor laid up around.	Flexible, copper screened rubber insulated and sheathed cables immune to severe condition mines and other demanding environments.	Excellent flexibility Abrasion, tear resistant and flame retardant UV, sunlight, ozone, oil resistant	Based on SANS 1520-1	0.64/1.1kV									
TRM-J	7500	Power cores laid up around rubber filler if needed. The wrap of synthetic tape for seven and more conductor cables, inner sheath, concentric screen, CR outer sheath.	Highly flexible mining, multi-conductor rubber cable immune to severe condition mines and other demanding environments.	Excellent flexibility Ozone, heat, oil resistant and flame retardant	Based on VDE 0250-812	0.69/1.15kV									
TRMC-J	700	Three screened power cores and one non screened earth cores laid up around rubber filler if needed. The wrap of synthetic tape for seven and more conductor cables, inner sheath, concentric screen, CR outer sheath.	Highly flexible mining, individual and overall screened, multi-conductor rubber cables.	Excellent flexibility Ozone, heat, oil resistant and flame retardant	Based on VDE 0250-812	0.69/1.15kV									
TYPE 611 & TYPE 611ECC	TAME	Three screened power cores, three unscreened pilot cores (alternatively, one pilot can be replaced with a tinned EOC conductor), laid up in the right hand lay around semi-conductive central filler, reinforcement, RS6 sheath.	Flexible copper screened mining cables suitable to encounter environmental and mechanical stresses inherent in mining industry.	Excellent flexibility Abrasion, tear resistant and flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-2	6.35/11kV									
TYPE 622 & TYPE 622EOC		Three screened power cores, three unscreened pilot cores (alternatively, one pilot can be replaced with a tinned ECC conductor), laid up in the right hand lay around semi-conductive central filler, reinforcement, RS6 sheath.	Flexible copper screened mining cables suitable to encounter environmental and mechanical stresses inherent in mining industry.	Excellent flexibility Abrasion, tear resistant and flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-2	12.7/22kV									
TYPE 633 & TYPE 633ECC	Train Comments	Three screened power cores, three unscreened pilot cores (alternatively, one pilot can be replaced with a tinned ECC conductor), laid up in the right hand lay around semi-conductive central filler, reinforcement, RSG sheath.	Flexible copper screened mining cables suitable to encounter environmental and mechanical stresses inherent in mining industry.	Excellent flexibility Abrasion, tear resistant and flame retardant UV, sunlight, ozone, oil resistant	SANS 1520-2	19/33kV									

US Standard







NON API	PLICABL	.E

DESCRIPTION A	IND FEATURES						APPLICATI	ON							
Cable range		Genaral construction	Description	Main Features		*	$\sqrt{\mathbf{Q}}$		- ■ -			1	Q ¹ /	#\$	
Cable Name	Model				Standard	Rated Voltage	Trailing	Reeling	Vertical reeling	Festoon	Drag Chain	Semi- Fixed or Fixed	Submersi- ble Pumps / Dredging		Tuneling / Shaft
SHD-GC	TF KAND	Three power cores, one bare grounding, one ground check and one FOM interstitial cabled together to form a round cable core, braid reinforced, extra heavy duty sheath.	Round, portable trailing power cable designed for heavy duty usage. Immune to severe condition of open pit mines and other demanding environments.	Excellent tear, impact and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	Based on: CSA C22.2 NO. 96-17 Based on: ICEA S-75-381	2-25kV									
TYPE W	17 FAM	Power cores and rubber fillers cabled together, heavy duty sheath.	Round, portable water resistant power cable with power cores only, designed for heavy duty usage. Immune to severe condition of mining industry and other demanding environments.	Excellent flexibility Water resistant and flame retardant Excellent impact and abrasion resistant Ozone, sunlight, oil, grease, weather, chemical and heat resistant	UL 44, UL 1650, CSA C22.2 96-17	2kV									
TYPEG	7 6.04	Power and ground cores cabled together to form a round core, heavy duty sheath.	Round portable power cable with power and ground cores, designed for heavy duty usage where grounding is required.	Excellent flexibility Water resistant and flame retardant Excellent impact and abrasion resistant Ozone, sunlight, oil, grease, weather, chemical and heat resistant	UL 44, UL 1650, CSA C22.2 96-17	2kV									
TYPE G-GC	17 KAND	Power, ground check and grounds cores cabled together to form a round core, heavy duty sheath.		Excellent flexibility Water resistant and flame retardant Excellent impact and abrasion resistance Ozone, sunlight, oil, grease, weather, chemical and heat resistant	UL 44, UL 1650, CSA C22.2 96-17	2kV									
MP-GC	TF Kable	Three power cores wrapped in copper tape, one ground check, two tinned copper grounding conductors cabled with cured rubber fillers, heavy duty sheath.	Round portable power cable with B Class conductor and copper wrap. Immune to severe condition of mining industry and other demanding environments.	Ozone, sun, weather and flame resistant Oil and heat resistant	ICEA S-75-381	5-25kV									
SH	TF Kable	Single, flexible core, composite tinned copper braid, reinforcing tape over insulation shield, heavy duty sheath.		Excellent flexibility Highly ozone, sun, weather and flame resistant Excellent impact and abrasion resistance Oil and heat resistant	ICEA S-75-381	5-35kV									

Other international standards



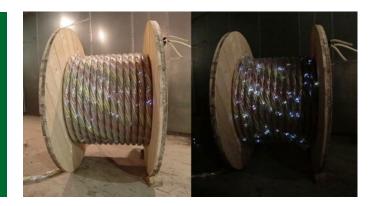
- MINING CABLES

DESCRIPTION AN	D FEATURES						APPLICATI	ON							
Cable range		Genaral construction	Description	Main Features		*	$\sqrt{\mathbf{Q}}$		-	$\overline{\mathbb{M}}$			O'A	-	
Cable Name	Model				Standard	Rated Voltage	Trailing	Reeling	Vertical reeling	Festoon	Drag Chain	Semi- Fixed or Fixed	Submersi- ble Pumps / Dredging	Communi-	Tuneling / Shaft
OnGcekż-G, O2nGcekż-G	17 Kadiq Silver	Multiple screened power cores and pilot cores twisted around bare protective core with rubber fillers between cores, single or double CR sheath.	Special flexible power supply cable designed for use in heavy mining environment suitable for areas endangered for methane and coal dust explosion.	Excellent tear, impact and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	ZN-96/ MP- 13-K1172	0.6/1kV									
OnGcekż-G2 , O2nGcekż-G2	TF Kable	Multiple screened power cores twisted around screened bunch of pilot cores, single or double CR sheath.	Special flexible power supply cable designed for use in heavy mining environment suitable for areas endangered for methane and coal dust explosion.	Excellent tear, impact and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	WT- 96/K-346	0.6/1kV									
OnGcekż-GW, O2nGcekż-GW	T Kalle	Multiple screened power cores and pilot cores twisted around bare protective core with rubber fillers between cores wrapped by water blocking tape, single or double CR sheath.	Special flexible water resistant power supply cable designed for use in heavy mining environment suitable for areas endangered for methane and coal dust explosion.	Excelent water, tear, impact and abrasion resistant UV, sunlight, ozone, oil resistant	: ZN-96/ MP- 13-K1172	3.6/6kV- 18/30kV									
OnGcrekgż-G (S)	700	Multiple screened power cores and protective cores twisted on rubber filler bare protective core with rubber fillers, synthetic tape, EP/CR sheath system.	Special power supply cable designed for fixed installation use in heavy mining environment.	Excellent tear, impact and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	ZN-95/ MP- 13-K104	3.6/6kV- 18/30kV									
TYPE 7	17 Kaba	Three screened power and one unscreened pilot laid up around bare earth conductor, thermoset sheath type RS6.	Specially designed heavy duty individually screened rubber flexible cable for mines and industry.	Excellent tear, impact and abrasion resistance Flame retardant UV, sunlight, ozone, oil resistant	BS 6708:1998	0.6/1.1kV									

Mining Cables EDITIONI

LED Mining

TFKable is introducing groundbreaking SHD-GC mining cables equipped with inductive LED strips to enhance visibility and safety in open-cast mines. This innovative solution aims to minimize damage instances, leading to improved operational safety and an extended service life for the cables.





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TFKable Group produces, among others, cables for the energy sector in the following product groups:

low voltage power cables up to 1kV, medium voltage power cables from 6/10kV to 18/30kV, high voltage power cables from 36kV to 150kV, extra high voltage power cables from 220kV to 400kV, cables; telecommunication copper and fiber optic cables; rubber insulated cables, including mining and crane cables; control cables for data transmission and security, as well as Inter-array cables (33kV & 66kV), Subsea Power Umbilicals, Steel Tube Umbilicals, rental and oil & gas services, i.e. submarine cables (including cables connecting wind towers and export cables), which are used in the construction and operation of offshore and onshore wind farms.

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