Application

These cables are specifically designed for rigorous mining environments and other demanding applications. Their primary uses include serving as main feeder cables for continuous miners, pump cables, and power supply cables in mining operations. The overall semiconductive screen provides a protective earth contact, ensuring that any object breaching the sheath will make contact with the ground before reaching the power conductors, enhancing safety in hazardous conditions. This cable is suitable for use in both underground and surface mining operations, as well as other industrial settings where robust and reliable power distribution is essential.

Performance

Electrical Performance: 1.1/1.1 kV.
Chemical & Oil Resistance: Excellent.
Minimum Bending Radius: 10 times the cable diameter.
Flame Non-propagation: Based on IEC 60332-1.
Thermal Performance:
Maximum Service Temperature: 85°C.
Maximum Short-circuit Temperature: 200°C (maximum 5 seconds).
Minimum Service Temperature: -25°C.

Construction

Conductor: Class 5 plain annealed tinned copper conductor.
Insulation: Ethylene Propylene Rubber (EPR) in red, white, and blue colors.
Insulation Screen: Semi-conductive elastomer.
Earth Core: Semi-conductive Polychloroprene (PCP) insulated (Black).
Central Pilot Core: EPR insulated (Grey).
Cradle Separator: Semi-conductive PCP (Black).
Semi-conductive Elastomer Screen for Core Assembly.
Textile Braid Reinforcement.
Outer Sheath: Heavy-duty PCP (Black). Heavy-duty Chlorinated Polyethylene (CPE) or Chlorosulfonated Polyethylene (CSP) sheath can be offered upon request.

Specification

AS/NZS 1802:2003: Electric cables - Reeling and trailing - For mining and general use (other than underground coal mining).
AS/NZS 1125: Conductors in insulated electric cables and flexible cords.
AS/NZS 3808: Insulating and sheathing materials for electric cables.
AS/NZS 5000.1: Electric cables - Polymeric insulated - For working voltages up to and including 0.6/1 (1.2) kV.

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TUV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Nominal Conductor Area	Strand Size	Insulation Thickness	Earth Conductor		Pilot Conductor		Thickness of Sheath Including SC PCP Layer	Nominal Overall Dia.	Nominal Weight
			Strand Size	Thickness of Covering	Strand Size	Thickness of Covering			
mm^2	No./mm	mm	No./mm	mm	No./mm	mm	mm	mm	kg/km
6	84/0.30	1.5	18/0.30	1	24/0.20	0.8	3.8	28.5	1060
10	77/0.40	1.5	27/0.30	1	24/0.20	0.8	3.8	31.1	1270
16	126/0.40	1.6	42/0.30	1	24/0.20	0.8	3.9	34.1	1640
25	209/0.40	1.6	66/0.30	1	24/0.20	0.8	4.2	37.9	2080
35	285/0.40	1.6	90/0.30	1	24/0.20	0.8	4.4	41.2	2540
50	380/0.40	1.7	120/0.30	1	40/0.20	0.8	4.9	45.9	3280
70	203/0.67	1.8	39/0.67	1	40/0.20	0.8	5.3	52.2	4800
95	259/0.67	2	39/0.67	1	40/0.20	0.8	5.8	56.7	6000
120	336/0.67	2.1	42/0.67	1.2	40/0.20	0.8	6.3	62.7	7100
150	427/0.67	2.3	54/0.67	1.2	40/0.20	0.8	6.7	68.3	8650
185	518/0.67	2.5	63/0.67	1.4	40/0.20	0.8	7.3	74.9	10300
240	672/0.67	2.8	77/0.67	1.4	40/0.20	0.8	8	83.3	13000
300	854/0.67	3	98/0.67	1.4	40/0.20	0.8	8.7	91.2	16000