TGK mining NSSHCOEU

TRIO GLOBAL KABEL

RoHS 2011/65/EU
LVD 2014/35/EU
CPR
CPR 305/2011
2 years warranty

Low voltage, flexible, motor power supply cable for frequency converters

Application:

Flexible cables for installation as motor power supply cables for frequency converters in mining industry. Suitable for laying on material handling equipment, also for continuous slight movements. Can also be used as a connection cable between upper and lower part of excavator, stacker/reclaimer etc. Cables classified according to **EN 50575 (CPR).**

Technical data:

Operating temperature:
Fixed systems: -40°C to 90°C
Flexible operation: -25°C to 90°C
Maximum permissible operating temperature of the conductor: 90°C
Maximum conductors operating temperature in short-circuit: 250°C
Tensile load: up to 15N/mm²
Torsional stresses: +/-25°/m
Min. bending radius: acc. to DIN VDE 0298, Part 3
Operating voltage [V]: U0/U= 600/1000 and 640/1140
Test voltage [kV]: 3kV

Construction:

Conductor: finely stranded class 5 (EN 60228, DIN VDE 0295) tinned, electrolytic copper
Insulation: EPR compound type 3GI3 (DIN VDE 0207, Part 20)
Core identification: Natural colouring with black printed digits 1 to 3
Core arrangement: Three power conductors laid-up with protective-earth conductor split into 3 in the outer interstices
Screen: tinned copper wire braid
Inner sheath: EPR compound, type: Gm1b (acc. to DIN VDE 0207, Part 21)
Outer sheath: special 5GM5 compound (acc. to DIN VDE 0207, Part 21) **Colour:** yellow

Chemical parameters:

Resistance to oil: EN 60811-2-1, IEC 60811-2-1
Behaviour in case of fire: VDE 0482 Part 332-1-2, EN 60332-1-2, IEC 60332-1-2
Weather resistance: Unrestricted use indoors, outdoors, resistance to ozone, UV and moisture

n x mm²	Nominal O.D [mm]	Approximate cable weight [kg/km]	Conductor resistance at 20°C [Ω/km]	Inductance [mH/km]	Operating capacitance [µF/km]	Current carrying short-circuit current at 30°C [A]	Permissible short-circuit current (1s) [kA]	Maximum permissible tensile force [N]
3x16+3x2,5	25,0	1130	1,24	0,32	0,36	99	1,95	720
3x25+3x4	30,3	1700	0,795	0,32	0,36	131	3,05	1125
3x35+3x6	32,5	2065	0,565	0,38	0,38	162	4,27	1575
3x50+3x25/3	38,6	2950	0,393	0,38	0,38	202	6,10	2250
3x70+3x35/3	43,9	4040	0,277	0,30	0,40	250	8,54	3150
3x95+3x50/3	49,7	5400	0,210	0,30	0,40	301	11,59	4275
3x120+3x70/3	53,6	6520	0,164	0,29	0,42	352	14,64	5400
3x150+3x70/3	59,4	7740	0,132	0,29	0,45	404	18,30	6750

- Die obigen Werte entsprechen den Angaben des Herstellers und können nicht garantiert werden.
- Wir behalten uns das Recht vor, Änderungen ohne vorherige Ankündigung vorzunehmen.
- Alle anderen Größen oder andere Ausführungen auf Anfrage

- The above values correspond to the manufacturer's specifications and are not guaranteed.
- We reserve the right to change details without notice.
- Any other sizes or any other designs available on request.

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