

Gummileitungen / Rubber Cables

(N)TSCGEWUEU-SR

Medium voltage, flexible power supply cable for high speed reeling applications.
Medium voltage, flexible power supply cable for high speed reeling applications.



Verwendung:

Flexible power supply cable for use in open-pit and underground mining facilities, a shipyards and docks for extremely high mechanical stresses during high travel speeds, multiple changes of direction into different planes, dynamic tensile loads etc. Cable designed mainly for large mobile equipment, excavators, container cranes etc.

Aufbau:

- Electrical field control: Inner and outer layers of semiconductive rubber
- Core arrangement: Three main conductors laid-up with optimised lay length, protective-earth conductor split into 3 in the outer interstices.
- Inner sheath: Special rubber compound, better than 5GM5 acting as a water barrier.
- Anti-torsion reinforcement: Braid of polyamide threads in a vulcanized bond between inner and double outer sheath being integral part of an outer sheath. Protection from transverse and longitudinal stress.

Technische Daten:

Leiter Werkstoff	
Leiterklasse	very finely stranded class 6 (EN 60228, DIN VDE 0295) tinned, electrolytic copper.
Aderisolationwerkstoff	EPR compound with improved electrical and mechanical characteristics (DN VDE 0207, Part 20).
Aderkennung	Natural colouring with black semiconductive rubber with printed white digits 1-3
Vorseilung	
Außenmantelwerkstoff	Special double layer sheath made of 5GM5 compound, water-, abrasion-, and tear-proof.
Mantelfarbe	Rot
Nennspannung [V]	3.6 / 6 kV bis 18 / 30 k
Prüfspannung [V]	11k V bis 43 k
Leiterwiderstand	
Isolationswiderstand	
Strombelastbarkeit	
kleinster Biegeradius fest [xd]	acc. to DIN VDE 0298, Part 3
kleinster Biegeradius bewegt [xd]	20 x d
Betriebstemp. fest min/max [C]	-50°C up to +90
Betriebstemp. bew. min/mac [C]	-35°C up to +80
Temperatur am Leiter max.	+90°C
Brandverhalten	
Normen	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 Water compatability: HD 22.16 (VDE 0282 Part 16) Weather resistance: Unrestricted use indoors, outdoors, resistance to ozone, UV and moisture.

Application:

Flexible power supply cable for use in open-pit and underground mining facilities, a shipyards and docks for extremely high mechanical stresses during high travel speeds, multiple changes of direction into different planes, dynamic tensile loads etc. Cable designed mainly for large mobile equipment, excavators, container cranes etc.

Construction:

- Electrical field control: Inner and outer layers of semiconductive rubber
- Core arrangement: Three main conductors laid-up with optimised lay length, protective-earth conductor split into 3 in the outer interstices.
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- Anti-torsion reinforcement: Braid of polyamide threads in a vulcanized bond between inner and double outer sheath being integral part of an outer sheath. Protection from transverse and longitudinal stress.

Technical Data:

Conductor Material	*
Conductor class	very finely stranded class 6 (EN 60228, DIN VDE 0295) tinned, electrolytic copper.
core insulation	EPR compound with improved electrical and mechanical characteristics (DN VDE 0207, Part 20).
core identification	Natural colouring with black semiconductive rubber with printed white digits 1-3
stranding	*
outer sheath	Special double layer sheath made of 5GM5 compound, water-, abrasion-, and tear-proof.
sheath colour	Red
rated voltage [V]	3.6 / 6 kV to 18 / 30 k
testing voltage [V]	11k V to 43 k
conductor resistance	*
insulation resistance	*
current carrying capacity	*
min. bending radius fixed [xd]	acc. to DIN VDE 0298, Part 3
min. bending radius moved [xd]	20 x d
working temp fixed min/max [C]	-50°C up to +90
working temp moved min/mac [C]	-35°C up to +80
temp at conductor max.	+90°C
burning behaviour	*
Approvals	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 Water compatability: HD 22.16 (VDE 0282 Part 16) Weather resistance: Unrestricted use indoors, outdoors, resistance to ozone, UV and moisture.

Kabel / Cable

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
	3 x 25 + 3x25/3 3.6/6 kV	39.40	0.00	273.00
	3 x 25 + 3x25/3 6/10 kV	41.40	0.00	291.50
	3 x 25 + 3x25/3 8.7/15 kV	45.00	0.00	329.00
	3 x 25 + 3x25/3 12/20 kV	48.80	0.00	371.50
	3 x 25 + 3x25/3 14/25 kV	54.10	0.00	437.00
	3 x 25 + 3x25/3 18/30 kV	57.60	0.00	483.00
	3 x 35 + 3x25/3 3.6/6 kV	42.70	0.00	323.00
	3 x 35 + 3x25/3 6/10 kV	44.80	0.00	345.00
	3 x 35 + 3x25/3 8.7/15 kV	48.20	0.00	384.00
	3 x 35 + 3x25/3 12/20kV	52.20	0.00	372.00
	3 x 35 + 3x25/3 14/25 kV	57.70	0.00	504.00
	3 x 35 + 3x25/3 18/30 kV	61.20	0.00	553.00
	3 x 50 + 3x25/3 3.6/6 kV	46.00	0.00	395.50
	3 x 50 + 3x25/3 6/10 kV	47.30	0.00	410.00
	3 x 50 + 3x25/3 8.7/15 kV	51.40	0.00	458.50
	3 x 50 + 3x25/3 12/20 kV	55.60	0.00	512.00
	3 x 50 + 3x25/3 14/25 kV	59.90	0.00	572.00
	3 x 50 + 3x25/3 18/30 kV	63.30	0.00	623.00
	3 x 70 + 3x35/3 3.6/6 kV	51.30	0.00	513.00
	3 x 70 + 3x35/3 6/10 kV	53.50	0.00	540.00
	3 x 70 + 3x35/3 8.7/15 kV	56.90	0.00	585.50
	3 x 70 + 3x35/3 12/20 kV	60.30	0.00	634.00
	3 x 70 + 3x35/3 14/25 kV	65.40	0.00	710.00
	3 x 70 + 3x35/3 18/30 kV	69.70	0.00	779.00
	3 x 95 + 3x50/3 3.6/6 kV	56.40	0.00	660.00
	3 x 95 + 3x50/3 6/10 kV	57.70	0.00	679.00
	3 x 95 + 3x50/3 8.7/15 kV	61.20	0.00	728.00
	3 x 95 + 3x50/3 12/20 kV	65.60	0.00	795.00
	3 x 95 + 3x50/3 14/25 kV	70.30	0.00	871.50
	3 x 95 + 3x50/3 18/30 kV	73.70	0.00	930.00
	3 x 120 + 3x70/3 3.6/6 kV	59.80	0.00	771.50
	3 x 120 + 3x70/3 6/10 kV	61.30	0.00	793.00
	3 x 120 + 3x70/3 8.7/15 kV	66.00	0.00	866.50
	3 x 120 + 3x70/3 12/20 kV	68.70	0.00	910.00
	3 x 120 + 3x70/3 14/25 kV	73.20	0.00	987.00
	3 x 120 + 3x70/3 18/30 kV	77.70	0.00	1066.00

Art Nr. Part No.	Adern x Querschnitt no. of cores x cross section	Außen Ø ca. mm outer Ø ca. mm	CU Gewicht kg/100m copper weight kg/100m	Gewicht kg/100m weight kg/100m
	3 x 150 + 3x70/3 3.6/6 kV	65.30	0.00	909.00
	3 x 150 + 3x70/3 6/10 kV	66.60	0.00	930.00
	3 x 150 + 3x70/3 8.7/15 kV	70.00	0.00	986.00
	3 x 150 + 3x70/3 12/20 kV	73.00	0.00	1038.00
	3 x 150 + 3x70/3 14/25 kV	78.50	0.00	1138.00
	3 x 150 + 3x70/3 18/30 kV	82.00	0.00	1204.00
	3 x 150 + 3x70/3 8.7/15 kV	70.00	0.00	986.00
	3 x 185 + 3x95/3 3.6/6 kV	69.30	0.00	1015.50
	3 x 185 + 3x95/3 6/10 kV	70.60	0.00	1038.00
	3 x 185 + 3x95/3 8.7/15 kV	74.10	0.00	1098.00
	3 x 185 + 3x95/3 12/20 kV	78.70	0.00	1182.00
	3 x 185 + 3x95/3 14/25 kV	82.60	0.00	1257.50
	3 x 185 + 3x95/3 18/30 kV	86.00	0.00	1327.00
	3 x 240 + 3x120/3 3.6/6 kV	76.30	0.00	1279.00
	3 x 240 + 3x120/3 6/10 kV	78.00	0.00	1312.00
	3 x 240 + 3x120/3 8.7/15 kV	81.40	0.00	1377.00
	3 x 240 + 3x120/3 12/20 kV	84.80	0.00	1446.00
	3 x 240 + 3x120/3 14/25 kV	90.10	0.00	1556.50
	3 x 240 + 3x120/3 18/30 kV	93.60	0.00	1632.00
	3 x 300 + 3x150/3 3.6/6 kV	81.40	0.00	1531.00
	3 x 300 + 3x150/3 6/10 kV	83.90	0.00	1581.00
	3 x 300 + 3x150/3 8.7/15 kV	89.20	0.00	1689.00
	3 x 300 + 3x150/3 12/20 kV	91.20	0.00	1733.00
	3 x 300 + 3x150/3 14/25 kV	95.50	0.00	1830.00
	3 x 300 + 3x150/3 18/30 kV	99.90	0.00	1932.00

Kontakt: