

Gummileitungen / Rubber Cables (N)TSCGEWUEU-TR

Mittelspannungskabel
Medium voltage, flexible power supply trailing cable.



Verwendung:

Flexible cable for power supply or connections for large material handling or mining machines in open-pit mines where exposed to extremely high mechanical stresses, abrasion and tear usually during trailing operation.

Aufbau:

- Protective-earth conductor: Very finely stranded class 6 (EN 60228, DIN VDE 0295) tinned, electrolytic copper.
- Electrical field control: Inner and outer layers of semiconductive rubber.
- Core arrangement: Three main conductors laid-up with protective-earth conductor split into 3 in the outer interstices.
- Reinforcement: Extremely tear-resistant reinforcing tape preventing sheath movements and protecting from transverse and longitudinal stress.

Technische Daten:

Leiter Werkstoff	
Leiterklasse	Finely stranded class 5 (EN 60228, DIN VDE 0295) tinned, electrolytic copper.
Aderisolationwerkstoff	EPR compound with improved electrical and mechanical characteristics (DIN VDE 0207, Part 20)
Aderkennung	Natural colouring with black semiconductive rubber with printed white numbers 1-3.
Verseilung	
Außenmantelwerkstoff	Abrieb und weiterreißfeste Spezialgummimischung, 5GM5 nach DIN VDE 207
Mantelfarbe	schwarz
Nennspannung [V]	3.6/6 kV 6/10 kV 8.7/15 kV 12/20 kV 14/25 kV 18/30 k
Prüfspannung [V]	11k V bis 43 k
Leiterwiderstand	
Isolationswiderstand	
Strombelastbarkeit	
kleinster Biegeradius fest [xd]	
kleinster Biegeradius bewegt [xd]	
Betriebstemp. fest min/max [C]	-40°C bis +90
Betriebstemp. bew. min/mac [C]	-25°C bis +80
Temperatur am Leiter max.	+90°C
Brandverhalten	
Normen	

Application:

Flexible cable for power supply or connections for large material handling or mining machines in open-pit mines where exposed to extremely high mechanical stresses, abrasion and tear usually during trailing operation.

Construction:

- Protective-earth conductor: Very finely stranded class 6 (EN 60228, DIN VDE 0295) tinned, electrolytic copper.
- Electrical field control: Inner and outer layers of semiconductive rubber.
- Core arrangement: Three main conductors laid-up with protective-earth conductor split into 3 in the outer interstices.
- Reinforcement: Extremely tear-resistant reinforcing tape preventing sheath movements and protecting from transverse and longitudinal stress.

Technical Data:

Conductor Material	*
Conductor class	Finely stranded class 5 (EN 60228, DIN VDE 0295) tinned, electrolytic copper.
core insulation	EPR compound with improved electrical and mechanical characteristics (DIN VDE 0207, Part 20)
core identification	Natural colouring with black semiconductive rubber with printed white numbers 1-3.
stranding	*
outer sheath	special EPR bades 5GM5 compound (acc. to DIN VDE 0207, Part 20) with special tear- and abrasion resistance characteristics, inner and outer sheath are inseparably bonded.
sheath colour	black
rated voltage [V]	3.6/6 kV 6/10 kV 8.7/15 kV 12/20 kV 14/25 kV 18/30 k
testing voltage [V]	11k V to 43 k
conductor resistance	*
insulation resistance	*
current carrying capacity	*
min. bending radius fixed [xd]	*
min. bending radius moved [xd]	*
working temp fixed min/max [C]	-40°C up to +90
working temp moved min/mac [C]	-25°C up to +80
temp at conductor max.	+90°C
burning behaviour	*
Approvals	*

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 18/30 kV	71.50	0.00	648.00
	3 x 25 + 3x25/3 14/25 kV	65.30	0.00	555.00
	3 x 25 + 3x25/3 12/20 kV	58.00	0.00	453.00
	3 x 25 + 3x25/3 8.7/15 kV	53.70	0.00	400.00
	3 x 25 + 3x25/3 6/10 kV	48.10	0.00	336.50
	3 x 25 + 3x25/3 3.6/6 kV	45.80	0.00	312.00
	3 x 35 + 3x25/3 18/30 kV	73.70	0.00	698.00
	3 x 35 + 3x25/3 14/25 kV	67.50	0.00	602.00
	3 x 35 + 3x25/3 12/20 kV	61.10	0.00	510.00
	3 x 35 + 3x25/3 8.7/15 kV	55.80	0.00	441.00
	3 x 35 + 3x25/3 6/10 kV	50.30	0.00	375.00
	3 x 35 + 3x25/3 3.6/6 kV	48.00	0.00	350.00
	3 x 50 + 3x25/3 18/30 kV	77.90	0.00	799.00
	3 x 50 + 3x25/3 14/25 kV	71.90	0.00	699.00
	3 x 50 + 3x25/3 12/20 kV	65.30	0.00	598.50
	3 x 50 + 3x25/3 8.7/15 kV	60.20	0.00	527.00
	3 x 50 + 3x25/3 6/10 kV	54.50	0.00	454.00
	3 x 50 + 3x25/3 3.6/6 kV	52.40	0.00	428.90
	3 x 70 + 3x35/3 18/30 kV	82.80	0.00	944.00
	3 x 70 + 3x35/3 14/25 kV	76.60	0.00	835.00
	3 x 70 + 3x35/3 12/20 kV	70.20	0.00	731.00
	3 x 70 + 3x35/3 8.7/15 kV	64.90	0.00	652.00
	3 x 70 + 3x35/3 6/10 kV	59.40	0.00	574.50
	3 x 70 + 3x35/3 3.6/6 kV	57.10	0.00	545.00
	3 x 95 + 3x50/3 18/30 kV	86.40	0.00	1081.00
	3 x 95 + 3x50/3 14/25 kV	81.30	0.00	985.00
	3 x 95 + 3x50/3 12/20 kV	73.90	0.00	858.00
	3 x 95 + 3x50/3 8.7/15 kV	69.60	0.00	790.00
	3 x 95 + 3x50/3 6/10 kV	63.00	0.00	692.50
	3 x 95 + 3x50/3 3.6/6 kV	61.70	0.00	675.00
	3 x 120 + 3x70/3 18/30 kV	89.80	0.00	1202.00
	3 x 120 + 3x70/3 14/25 kV	83.80	0.00	1087.00
	3 x 120 + 3x70/3 12/20 kV	77.20	0.00	969.00
	3 x 120 + 3x70/3 8.7/15 kV	72.10	0.00	884.00
	3 x 120 + 3x70/3 6/10 kV	66.40	0.00	796.00
	3 x 120 + 3x70/3 3.6/6 kV	64.30	0.00	765.00

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 18/30 kV	95.70	0.00	1374.00
	3 x 150 + 3x70/3 14/25 kV	89.60	0.00	1248.00
	3 x 150 + 3x70/3 12/20 kV	83.20	0.00	1125.00
	3 x 150 + 3x70/3 8.7/15 kV	77.90	0.00	1030.00
	3 x 150 + 3x70/3 6/10 kV	72.40	0.00	938.00
	3 x 150 + 3x50/3 6/10 kV	72.40	0.00	937.00
	3 x 150 + 3x50/3 3.6/6 kV	70.10	0.00	901.50
	3 x 150 + 3x70/3 12/20 kV	83.20	0.00	1125.00
	3 x 185 + 3x95/3 18/30 kV	101.30	0.00	1577.00
	3 x 185 + 3x95/3 14/25 kV	95.30	0.00	1447.00
	3 x 185 + 3x95/3 12/20 kV	88.50	0.00	1310.00
	3 x 185 + 3x95/3 8.7/15 kV	83.60	0.00	1214.00
	3 x 185 + 3x95/3 6/10 kV	77.90	0.00	1112.00
	3 x 185 + 3x50/3 6/10 kV	77.90	0.00	1097.00
	3 x 185 + 3x95/3 3.6/6 kV	75.80	0.00	1075.50

Kontakt: