

Gummileitungen / Rubber Cables

NTSCGEWUEU-W/3E

Mittelspannungskabel, für den Einsatz im Wasser geeignet.
Medium voltage, flexible power supply cable for use in water.



Verwendung:

Verwendung als Zuführungskabel in Tagebaubetrieben, die mit Wasser in Berührung kommen, bei hohem mechanischem Druck, z.B. für Schwimmbagger, Schwimmdocks, Pumpen unter Wasser, etc. Verwendung in Abwasser und Salzwasser möglich.

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Aufbau:

- Standard: acc. to DIN VDE 0250 p.813
- Elektrisches Feld: äußerer und innerer Überzug aus halbleitendem Gummi mit weißen Kennzeichen 1 - 3, mittige Schutzleiter
- Adern: 3 Hauptleiter verbunden mit dem Schutzleiter (besteht aus 3 Teilen)
- Umhüllung: halbleitend, verstärkend, quellfähig, bindend und separierend
- Innenmantelwerkstoff: EPR Spezialmischung GM1b, wasserfest (DIN VDE 0201, Part 21)

Technische Daten:

Leiter Werkstoff	Finely stranded class 5 (EN 60228, DIN VDE 0295) tinned, electrolytic copper.
Leiterklasse	Klasse 5
Aderisolationwerkstoff	EPR compound with improved electrical and mechanical characteristics (DIN VDE 0207, Part 20)
Aderkennung	Natural colouring with black semiconductive rubber with printed white digits 1-3.
Verseilung	
Außenmantelwerkstoff	5GM5 compound with improved mechanical characteristics (acc. to DIN VDE 0207, Part 21)
Mantelfarbe	Rot
Nennspannung [V]	3.6/6 kV 6/10 kV 8.7/15 kV 12/20 kV 14/25 kV 18/30 k
Prüfspannung [V]	11 kV bis 43 k
Leiterwiderstand	
Isolationswiderstand	
Strombelastbarkeit	Nach DIN VDE 0298, Part 4
kleinster Biegeradius fest [xd]	Nach DIN VDE 0298, Part 3
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	VDE 0482 Part 332-1-2, EN 60332-1-2, IEC 60332-1-2
Normen	

Application:

Power supply cable for use strip and open-pit mining facilities designed for operation in water and exposed to high mechanical stresses, e.g. for connection to dredgers, floating docks, submersible pumps, etc. Cables are suitable to work in sewage, salt and brackish water.

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Construction:

- standard: acc. to DIN VDE 0250 p.813
- Electrical field control: inner and outer layers of semiconductive rubber and individual concentric protective-earth conductor
- Core arrangement: three main conductors and protective-earth conductor split into 3 elements distributed concentrically over the insulation of three power conductors laid-up together
- Wrapping: semiconductive, reinforced, swellable, binding and separating tape
- Inner sheath: EPR compound type GM1b, waterproof (acc. to DIN VDE 0201, Part 21)

Technical Data:

Conductor Material	Finely stranded class 5 (EN 60228, DIN VDE 0295) tinned, electrolytic copper.
Conductor class	class 5
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 digits 1-3.
stranding	*
outer sheath	5GM5 compound with improved mechanical characteristics (acc. to DIN VDE 0207, Part 21)
sheath colour	red
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]	11 kV up to 43 k
conductor resistance	*
insulation resistance	*
current carrying capacity	Acc. to DIN VDE 0298, Part 4
min. bending radius fixed [xd]	Acc. to DIN VDE 0298, Part 3
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	VDE 0482 Part 332-1-2, EN 60332-1-2, IEC 60332-1-2
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 + 3x16/3E 3.6/6 kV	48.90	0.00	325.00
	3 x 25 + 3x16/3E 6/10 kV	50.10	0.00	338.00
	3 x 25 + 3x16/3E 8.7/15 kV	56.70	0.00	413.00
	3 x 25 + 3x16/3E 12/20 kV	61.00	0.00	465.00
	3 x 25 + 3x16/3E 14/25 kV	68.30	0.00	565.00
	3 x 25 + 3x16/3E 18/30 kV	73.50	0.00	642.00
	3 x 35 + 3x16/3E 3.6/6 kV	51.00	0.00	363.00
	3 x 35 + 3x16/3E 6/10 kV	54.10	0.00	398.00
	3 x 35 + 3x16/3E 8.7/15 kV	58.80	0.00	455.00
	3 x 35 + 3x16/3E 12/20 kV	65.00	0.00	534.00
	3 x 35 + 3x16/3E 14/25 kV	70.50	0.00	612.00
	3 x 35 + 3x16/3E 18/30 kV	77.50	0.00	722.00
	3 x 50 + 3x25/3E 3.6/6 kV	56.20	0.00	462.00
	3 x 50 + 3x25/3E 6/10 kV	57.50	0.00	477.00
	3 x 50 + 3x25/3E 8.7/15 kV	62.30	0.00	535.50
	3 x 50 + 3x25/3E 12/20 kV	68.40	0.00	620.00
	3 x 50 + 3x25/3E 14/25 kV	73.90	0.00	705.00
	3 x 50 + 3x25/3E 18/30 kV	80.90	0.00	817.00
	3 x 70 + 3x35/3E 3.6/6 kV	60.10	0.00	566.00
	3 x 70 + 3x35/3E 6/10 kV	61.40	0.00	583.00
	3 x 70 + 3x35/3E 8.7/15 kV	67.90	0.00	673.00
	3 x 70 + 3x35/3E 12/20 kV	72.30	0.00	734.00
	3 x 70 + 3x35/3E 14/25 kV	79.60	0.00	852.00
	3 x 70 + 3x35/3E 18/30 kV	84.80	0.00	940.00
	3 x 95 + 3x50/3E 3.6/6 kV	66.00	0.00	707.00
	3 x 95 + 3x50/3E 6/10 kV	67.30	0.00	725.00
	3 x 95 + 3x50/3E 8.7/15 kV	72.00	0.00	795.00
	3 x 95 + 3x50/3E 12/20 kV	78.20	0.00	890.00
	3 x 95 + 3x50/3E 14/25 kV	83.70	0.00	985.00
	3 x 95 + 3x50/3E 18/30 kV	90.70	0.00	1112.00
	3 x 120 + 3x70/3E 3.6/6 kV	67.00	0.00	827.00
	3 x 120 + 3x70/3E 6/10 kV	70.30	0.00	846.00
	3 x 120 + 3x70/3E 8.7/15 kV	76.90	0.00	947.00
	3 x 120 + 3x70/3E 12/20 kV	81.20	0.00	1020.00
	3 x 120 + 3x70/3E 14/25 kV	88.60	0.00	1150.00
	3 x 120 + 3x70/3E 18/30 kV	93.70	0.00	1246.00

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 + 3x70/3E 3.6/6 kV	74.00	0.00	950.00
	3 x 150 + 3x70/3E 6/10 kV	77.10	0.00	1000.00
	3 x 150 + 3x70/3E 8.7/15 kV	81.80	0.00	1078.00
	3 x 150 + 3x70/3E 12/20 kV	86.10	0.00	1155.00
	3 x 150 + 3x70/3E 14/25 kV	93.50	0.00	1295.00
	3 x 150 + 3x70/3E 18/30 kV	100.50	0.00	1435.00
	3 x 150 + 3x70/3E 8.7/15 kV	81.80	0.00	1078.00
	3 x 185 + 3x95/3E 3.6/6 kV	80.50	0.00	1158.00
	3 x 185 + 3x95/3E 6/10 kV	81.80	0.00	1180.00
	3 x 185 + 3x95/3E 8.7/15 kV	88.30	0.00	1298.00
	3 x 185 + 3x95/3E 12/20 kV	92.60	0.00	1380.00
	3 x 185 + 3x95/3E 14/25 kV	98.20	0.00	1490.00
	3 x 185 + 3x95/3E 18/30 kV	105.20	0.00	1640.00

Kontakt: