

## Gummileitungen / Rubber Cables

### (N)TSCGEWOU-F

Medium voltage, flexible power supply cable for fixed installations.  
Medium voltage, flexible power supply cable for fixed installations.



#### Verwendung:

Flexible power supply cable for fixed installations in strip and open-pit mining facilities, alongside belt conveyors also for continuous slight movements (free overhand, slight twisting). Can also be used as connection cable between upper and lower part of excavator, stacker/reclaimer. It is suitable also for constant operation in water as power supply cable to submersible pumps.

#### Aufbau:

- Electrical field control: Inner and outer layers of semiconductive rubber
- Core arrangement: Three power conductors laid-up with double concentric control/protective conductor elements in the outer interstices, with optimised lay length.
- Inner sheath: Special EPR compound (acc. to DIN VDE 0207, Part 21)
- Standard: based on DIN VDE 0250, p 813

#### Technische Daten:

<b>Leiter Werkstoff</b>	
<b>Leiterklasse</b>	Finely stranded class 5 (EN 60228, DIN VDE 0295) nont tinned, electrolytic copper.
<b>Aderisolationwerkstoff</b>	EPR compound with improved electrical and mechanical characteristics (DIN VDE 0207, Part 20).
<b>Aderkennung</b>	Natural colouring with black semiconductive rubber with printed white numbers 1-3.
<b>Verseilung</b>	
<b>Außenmantelwerkstoff</b>	5GM5 compound with improved mechanical characteristics (acc. to DIN VDE 0207, Part 21), waterproof.
<b>Mantelfarbe</b>	Rot
<b>Nennspannung [V]</b>	3.6/6 kV 6/10 kV 8.7/15 kV 12/20 kV 14/25 kV 18/30 k
<b>Prüfspannung [V]</b>	11k V bis 43 k
<b>Leiterwiderstand</b>	
<b>Isolationswiderstand</b>	
<b>Strombelastbarkeit</b>	
<b>kleinster Biegeradius fest [xd]</b>	
<b>kleinster Biegeradius bewegt [xd]</b>	
<b>Betriebstemp. fest min/max [C]</b>	-40°C bis +90
<b>Betriebstemp. bew. min/mac [C]</b>	-25°C bis +80
<b>Temperatur am Leiter max.</b>	+90°C
<b>Brandverhalten</b>	
<b>Normen</b>	- 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 Oart 16) - Weather resistance: Unrestricted use indoors, outdoors, resistance to ozone, UV and moisture.

#### Application:

Flexible power supply cable for fixed installations in strip and open-pit mining facilities, alongside belt conveyors also for continuous slight movements (free overhand, slight twisting). Can also be used as connection cable between upper and lower part of excavator, stacker/reclaimer. It is suitable also for constant operation in water as power supply cable to submersible pumps.

#### Construction:

- Electrical field control: Inner and outer layers of semiconductive rubber
- Core arrangement: Three power conductors laid-up with double concentric control/protective conductor elements in the outer interstices, with optimised lay length.
- Inner sheath: Special EPR compound (acc. to DIN VDE 0207, Part 21)
- Standard: based on DIN VDE 0250, p 813

#### Technical Data:

<b>Conductor Material</b>	*
<b>Conductor class</b>	Finely stranded class 5 (EN 60228, DIN VDE 0295) nont tinned, electrolytic copper.
<b>core insulation</b>	EPR compound with improved electrical and mechanical characteristics (DIN VDE 0207, Part 20).
<b>core identification</b>	Natural colouring with black semiconductive rubber with printed white numbers 1-3.
<b>stranding</b>	*
<b>outer sheath</b>	5GM5 compound with improved mechanical characteristics (acc. to DIN VDE 0207, Part 21), waterproof.
<b>sheath colour</b>	red
<b>rated voltage [V]</b>	3.6/6 kV 6/10 kV 8.7/15 kV 12/20 kV 14/25 kV 18/30 k
<b>testing voltage [V]</b>	11k V to 43 k
<b>conductor resistance</b>	*
<b>insulation resistance</b>	*
<b>current carrying capacity</b>	*
<b>min. bending radius fixed [xd]</b>	*
<b>min. bending radius moved [xd]</b>	*
<b>working temp fixed min/max [C]</b>	-40°C up to +90
<b>working temp moved min/mac [C]</b>	-25°C up to +80 °C
<b>temp at conductor max.</b>	+90°C
<b>burning behaviour</b>	*
<b>Approvals</b>	- 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 Oart 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 10 + 3x50/3 3.6/6 kV	50.00	0.00	478.00
	3 x 25 + 3x25/3 3.6/6 kV	39.20	0.00	247.50
	3 x 25 + 3x50/3 3.6/6 kV	43.60	0.00	322.50
	3 x 25 + 3x25/3 6/10 kV	41.90	0.00	271.60
	3 x 25 + 3x50/3 6/10kV	43.60	0.00	322.00
	3 x 25 + 3x25/3 8.7/15 kV	45.30	0.00	304.00
	3 x 25 + 3x50/3 8.7/15 kV	46.20	0.00	347.00
	3 x 25 + 3x25/3 12/20 kV	48.30	0.00	334.50
	3 x 25 + 3x50/3 12/20 kV	48.30	0.00	369.00
	3 x 25 + 3x25/3 14/25 kV	54.40	0.00	403.00
	3 x 25 + 3x50/3 14/25 kV	54.40	0.00	438.00
	3 x 25 + 3x25/3 18/30 kV	57.90	0.00	445.00
	3 x 25 + 3x50/3 18/30 kV	57.90	0.00	480.00
	3 x 35 + 3x25/3 3.6/6 kV	42.70	0.00	295.00
	3 x 35 + 3x50/3 3.6/6 kV	45.30	0.00	354.00
	3 x 35 + 3x25/3 6/10 kV	44.00	0.00	306.50
	3 x 35 + 3x50/3 6/10 kV	46.20	0.00	362.50
	3 x 35 + 3x25/3 8.7/15 kV	47.50	0.00	340.00
	3 x 35 + 3x50/3 8.7/15 kV	47.50	0.00	375.50
	3 x 35 + 3x25/3 12/20 kV	50.50	0.00	372.50
	3 x 35 + 3x50/3 12/20 kV	50.50	0.00	407.50
	3 x 35 + 3x25/3 14/25 kV	56.60	0.00	444.00
	3 x 35 + 3x50/3 14/25 kV	56.60	0.00	479.00
	3 x 35 + 3x25/3 18/30 kV	60.00	0.00	487.50
	3 x 35 + 3x50/3 18/30 kV	60.00	0.00	522.00
	3 x 50 + 3x25/3 3.6/6 kV	46.20	0.00	356.50
	3 x 50 + 3x50/3 3.6/6 kV	46.60	0.00	396.00
	3 x 50 + 3x25/3 6/10 kV	47.50	0.00	369.00
	3 x 50 + 3x50/3 6/10 kV	47.50	0.00	404.00
	3 x 50 + 3x25/3 8.7/15 kV	50.90	0.00	406.00
	3 x 50 + 3x50/3 8.7/15 kV	50.90	0.00	440.00
	3 x 50 + 3x25/3 12/20 kV	55.70	0.00	462.50
	3 x 50 + 3x50/3 12/20 kV	55.70	0.00	497.50
	3 x 50 + 3x25/3 14/25 kV	60.00	0.00	516.00
	3 x 50 + 3x50/3 14/25 kV	60.00	0.00	551.00
	3 x 50 + 3x25/3 18/30 kV	65.30	0.00	588.50

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 50 + 3x50/3 18/30 kV	65.30	0.00	623.00
	3 x 70 + 3x35/3 3.6/6 kV	50.00	0.00	456.00
	3 x 70 + 3x50/3 3.6/6 kV	50.00	0.00	478.00
	3 x 70 + 3x35/3 6/10 kV	53.10	0.00	491.50
	3 x 70 + 3x50/3 6/10 kV	53.10	0.00	514.00
	3 x 70 + 3x35/3 8.7/15 kV	56.60	0.00	532.00
	3 x 70 + 3x50/3 8.7/15 kV	56.60	0.00	554.50
	3 x 70 + 3x35/3 12/20 kV	59.60	0.00	569.50
	3 x 70 + 3x50/3 12/20 kV	59.60	0.00	592.00
	3 x 70 + 3x35/3 14/25 kV	65.70	0.00	653.50
	3 x 70 + 3x50/3 14/25 kV	65.70	0.00	676.00
	3 x 70 + 3x35/3 18/30 kV	69.10	0.00	703.00
	3 x 70 + 3x50/3 18/30 kV	69.10	0.00	726.00
	3 x 95 + 3x50/3 3.6/6 kV	54.50	0.00	575.00
	3 x 95 + 3x50/3 6/10 kV	55.80	0.00	590.00
	3 x 95 + 3x50/3 8.7/15 kV	59.20	0.00	632.50
	3 x 95 + 3x50/3 12/20 kV	65.00	0.00	712.50
	3 x 95 + 3x50/3 14/25 kV	69.30	0.00	775.00
	3 x 95 + 3x50/3 18/30 kV	72.80	0.00	827.50
	3 x 120 + 3x70/3 3.6/6 kV	57.10	0.00	660.00
	3 x 120 + 3x70/3 6/10 kV	58.40	0.00	676.00
	3 x 120 + 3x70/3 8.7/15 kV	63.10	0.00	738.00
	3 x 120 + 3x70/3 12/20 kV	67.60	0.00	804.00
	3 x 120 + 3x70/3 14/25 kV	71.90	0.00	868.00
	3 x 120 + 3x70/3 18/30 kV	77.20	0.00	954.50
	3 x 150 + 3x70/3 3.6/6 kV	64.80	0.00	814.00
	3 x 150 + 3x70/3 6/10 kV	66.10	0.00	832.00
	3 x 150 + 3x70/3 8.7/15 kV	69.60	0.00	882.00
	3 x 150 + 3x70/3 12/20 kV	72.60	0.00	928.00
	3 x 150 + 3x70/3 14/25 kV	76.90	0.00	997.00
	3 x 150 + 3x70/3 18/30 kV	82.10	0.00	1088.00
	3 x 185 + 3x95/3 3.6/6 kV	69.60	0.00	964.00
	3 x 185 + 3x95/3 6/10 kV	70.80	0.00	983.00
	3 x 185 + 3x95/3 8.7/15 kV	74.30	0.00	1036.50
	3 x 185 + 3x95/3 12/20 kV	79.10	0.00	1118.00
	3 x 185 + 3x95/3 14/25 kV	83.40	0.00	1193.00

### Kontakt:

## 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 185 + 3x95/3 18/30 kV	86.80	0.00	1255.50
	3 x 240 + 3x120/3 3.6/6 kV	74.50	0.00	1175.00
	3 x 240 + 3x120/3 6/10 kV	77.60	0.00	1227.60
	3 x 240 + 3x120/3 8.7/15 kV	81.00	0.00	1286.00
	3 x 240 + 3x120/3 12/20 kV	84.00	0.00	1339.50
	3 x 240 + 3x120/3 14/25 kV	88.30	0.00	1418.50
	3 x 240 + 3x120/3 18/30 kV	91.80	0.00	1485.00
	3 x 300 + 3x150/3 3.6/6 kV	81.20	0.00	1444.00
	3 x 300 + 3x150/3 6/10 kV	82.50	0.00	1466.60
	3 x 300 + 3x150/3 8.7/15 kV	86.00	0.00	1529.00
	3 x 300 + 3x150/3 12/20 kV	89.00	0.00	1585.00
	3 x 300 + 3x150/3 14/25 kV	93.30	0.00	1669.00
	3 x 300 + 3x150/3 18/30 kV	96.70	0.00	1739.00