(N)TSCGEWÖU : Trailing mining cable

3GI3 rubber insulation, GM1b and 5GM5 rubber sheath with textile braid reinforcement

Benefits

- Ozone resistance
- High impact strength
- Enhanced abrasion resistance
- Resistance to oil, grease and chemicals
- High insulation resistance
- Used in open and underground mines
- Extremly torsion resistant

Cable structure

- Stranded tinned copper conductor, fine wire
- Strand structure to VDE 0295 class 5/ IEC 60228 class 5
- Inner semi-conducting layer over power conductors and earth conductors
- Phase cores are insulated with 3GI3 compound (Ethylene-Propylene Rubber/EPR) to DIN VDE 0207 part 20. Earth cores are not insulated
- Outer semi-conducting layer over phase core insulations
- All cores are laid up in contact with each other and interstitial ground cores
- Special elastomeric compound GM1b bedding, to DIN VDE 0207 part 21
- Open textile braid for reinforcement
- Heavy-duty elastomer outer sheath 5GM5 (Chloroprene/CR : Neoprene), to DIN VDE 0207 part 21, oil-resistant
- Sheath red color with type marking

Application

Suitable for use as trailing cable for forced guidance around reversing rolls or on cable caterpillars of hoisting gear or conveyor systems with exposure to high mechanical strain. Used in dry, damp and wet environments and for outdoor installation.

Electrical and technical specifications

- Cable construction : VDE 0250-813
- General specification : VDE 0250-1
- Operations manual : VDE 0298-3
- Test voltage : VDE 0472 501, 503, 508
- Insulation tests : VDE 0472-401, 402, 602, 303, 615
- Fire test : VDE 0472-803, 804
- Conductor short circuit temp. : Max. 250ºC
- Operating temperature:
  Fixed : -40 to 80ºC
  Flexible : -25 to 80ºC
- Minimum bending radius : VDE 0298, part 3
- Power rating : VDE 0298-4
- Flame retardant : IEC 60332-1-2
- Oil resistance : IEC 60811-2-1
- Cold resistance / Tear resistance / Ex-proof / UV resistance
- Normal voltage Uo/U : 3.6/6kV, 6/10kV, 8.7/15kV, 12/20kV, 18/30kV
- AC test voltage 11kV 17kV 24kV 29kV 43kV
- Operating voltage AC : 4.2/7.2kV, 6.9/12kV, 10.4/18kV, 13.9/24kV, 20.8/36kV
- Travel speed : max 30 m/min

Part NO.	Core x Conductor size (mm^2)	NO of strands* x Max strand Dia.(mm)	Outer Dai.* (mm)	Tensile force max. (N)	Weight* (kg/km)	Conductor Resistance @ 20ºC (Ohm/km)
3.6/6 kV (VMAX 7.2kV)						
798067 250611	3X25+3X25/3E	200x0.40/67x0.40	41.8 - 45.0	1500	2530	0.780
798067 350611	3X35+3X25/3E	280x0.40/67x0.40	44.2 - 48.9	2100	2900	0.554
798067 500611	3X50+3X25/3E	400x0.40/67x0.40	48.5 - 51.4	3000	3600	0.386
798067 700611	3X70+3X35/3E	356x0.50/94x0.40	52.6 - 55.6	4200	4400	0.272
798067 950611	3X95+3X50/3E	485x0.50/133x0.40	55.7 - 58.8	5700	5630	0.206
798069 120611	3X120+3X70/3E	614x0.50/119x0.50	59.6 - 65.9	7200	6200	0.161
798069 150611	3X150+3X70/3E	765x0.50/119x0.50	65.3 - 70.1	9000	7780	0.129
6/10 kV (VMAX 12kV)						
798077 250611	3X25+3X25/3E	200x0.40/67x0.40	43.6 - 48.1	1500	2600	0.780
798077 350611	3X35+3X25/3E	280x0.40/67x0.40	45.6 - 50.4	2100	2980	0.554
798077 500611	3X50+3X25/3E	400x0.40/67x0.40	48.3 - 51.4	3000	3720	0.386
798077 700611	3X70+3X35/3E	356x0.50/94x0.40	53.4 - 59.1	4200	4510	0.272
798077 950611	3X95+3X50/3E	485x0.50/133x0.40	57.1 - 63.2	5700	5720	0.206
798079 120611	3X120+3X70/3E	614x0.50/119x0.50	63.1 - 69.7	7200	6300	0.161
798079 150611	3X150+3X70/3E	765x0.50/119x0.50	69.5 - 74.3	9000	7780	0.129

* คือค่าโดยประมาณ
* It is approximate value

- ความยาวมาตราฐาน คือ 100 ม., 500 ม. และ 1,000 ม. ขึ้นอยู่กับขนาดเส้นผ่านศูนย์กลางของสายไฟ
- Standard length is 100 m, 500 m and 1,000 m depend on OD of cable

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Part NO.	Core x Conductor size (mm^2)	NO of strands* x Max strand Dia.(mm)	Outer Dai.* (mm)	Tensile force max. (N)	Weight* (kg/km)	Conductor Resistance @ 20°C (Ohm/km)
8.7/15 kV (VMAX 18kV)						
798087 250611	3X25+3X25/3E	200x0.40/67x0.40	41.8 - 45.0	1500	2750	0.780
798087 350611	3X35+3X25/3E	280x0.40/67x0.40	44.2 - 48.9	2100	3210	0.554
798087 500611	3X50+3X25/3E	400x0.40/67x0.40	48.5 - 51.4	3000	3950	0.386
798087 700611	3X70+3X35/3E	356x0.50/94x0.40	52.6 - 55.6	4200	5000	0.272
798087 950611	3X95+3X50/3E	485x0.50/133x0.40	55.7 - 58.8	5700	6150	0.206
798089 120611	3X120+3X70/3E	614x0.50/119x0.50	59.6 - 65.9	7200	7700	0.161
798089 150611	3X150+3X70/3E	765x0.50/119x0.50	65.3 - 70.1	9000	9000	0.129
12/20 kV (VMAX 24kV)						
798097 250611	3X25+3X25/3E	200x0.40/67x0.40	43.6 - 48.1	1500	3040	0.780
798097 350611	3X35+3X25/3E	280x0.40/67x0.40	45.6 - 50.4	2100	3510	0.554
798097 500611	3X50+3X25/3E	400x0.40/67x0.40	48.3 - 51.4	3000	4410	0.386
798097 700611	3X70+3X35/3E	356x0.50/94x0.40	53.4 - 59.1	4200	5420	0.272
798097 950611	3X95+3X50/3E	485x0.50/133x0.40	57.1 - 63.2	5700	6750	0.206
798099 120611	3X120+3X70/3E	614x0.50/119x0.50	63.1 - 69.7	7200	8050	0.161
798099 150611	3X150+3X70/3E	765x0.50/119x0.50	69.5 - 74.3	9000	9200	0.129

* คือค่าโดยประมาณ
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- Standard length is 100 m, 500 m and 1,000 m depend on OD of cable