

MINING CABLES

FLEXIMINING® MEDIUM F-(N)TSCGEWÖU



Construction:

Conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Inner semi-conductive layer:	semi-conducting rubber compound
Insulation:	rubber EPR compound
Outer semi-conductive layer:	semi-conducting compound
Earth conductor:	flexible red copper conductor Cl. 5, acc to IEC 60228, DIN VDE 0295
Earth semi-conductive layer:	semi-conducting compound
Cores color:	Power: natural color with black semi-conducting compound Earth: black semi-conducting compound
Stranding:	phase units laid up with earth-conductors in interstices
Inner sheath:	rubber EPR compound
Outer sheath:	red (similar to RAL 3000), rubber PCP compound

Technical data:

Nominal voltage:	U _o /U 3,6/6 kV up to 18/30 kV
Max. permissible operating voltage in A.C. systems:	U _o U 4,2/7,2 kV up to 20,8/36 kV
Max. permissible operating voltage in D.C. systems:	U _o U 5,4/10,8 kV up to 27/54 kV
Test voltage:	11 kV up to 43 kV
Temperature range:	
<i>Fixed laying:</i>	-40°C up to +80°C
<i>Flexible application:</i>	-25 °C up to +60°C
Temperature on conductor in service:	up to +90°C
<i>in short-circuit:</i>	up to +250°C
Min. bending radius:	acc. to DIN VDE 0298, Part 3
Tensile strength:	20 N/mm ²
Max speed (main application):	100 m/min
Max. torsion:	± 100°/m

Resistance:



Self-extinguishing and flame retardant acc. to:

DIN VDE 0482 part 265-2-1
EN 50265-2-1
IEC 60332-1-2



Oil resistance acc. to:

DIN VDE 0473 part 811-2-1
IEC EN 60811-2-1

Features:

conveyor belts!

UV, ozone, and moisture resistant

outdoor use

very flexible

acc. to DIN VDE 0250 part 813

EAC (GOST) and WUG approvals on request

for SPEEDS and MINIMUM BENDING RADIUS
see pages from 2 to 8 of catalogue

Applications:

For the conveyor and materials handling equipment

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ELETTROTEK KABEL® FLEXIMINING® MEDIUM F-(N)TSCGEWÖU

3,6/6 (7,2) kV F-(N)TSCGEWÖU

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no.)*
06070MR1037M63	3x25 + 3x25/3	38,2	960	2315	1125	4
06071MR1037M63	3x25 + 3x50/3	42,1	1200	2875	1125	4
06070MR1037M64	3x35 + 3x25/3	42	1248	2868	1575	2
06071MR1037M64	3x35 + 3x50/3	43,8	1488	3230	1575	2
06070MR1037M65	3x50 + 3x25/3	45,3	1680	3515	2250	1
06071MR1037M65	3x50 + 3x50/3	45,3	1920	3655	2250	1
06070MR1037M66	3x70 + 3x35/3	48,5	2256	4368	3150	2/0
06071MR1037M66	3x70 + 3x50/3	51,7	2496	5018	3150	2/0
06070MR1037M67	3x95 + 3x50/3	54,6	3216	5547	4275	3/0
06070MR1037M68	3x120 + 3x70/3	57,9	4128	6680	5400	4/0
06070MR1037M69	3x150 + 3x70/3	63	4992	8015	6750	250 MCM
06070MR1037M70	3x185 + 3x95/3	66	6240	9310	8325	350 MCM
06070MR1037M71	3x240 + 3x120/3	74,1	8064	11966	10800	450 MCM
06070MR1037M72	3x300 + 3x150/3	79,3	10080	14245	13500	550 MCM

6/10 (12) kV F-(N)TSCGEWÖU

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no.)*
06070QR1037M63	3x25 + 3x25/3	40,5	960	2510	1125	4
06071QR1037M63	3x25 + 3x50/3	42,9	1200	2915	1125	4
06070QR1037M64	3x35 + 3x25/3	43,3	1248	2987	1575	2
06071QR1037M64	3x35 + 3x50/3	45,1	1488	3340	1575	2
06070QR1037M65	3x50 + 3x25/3	46,6	1680	3635	2250	1
06071QR1037M65	3x50 + 3x50/3	46,6	1920	3740	2250	1
06070QR1037M66	3x70 + 3x35/3	53,1	2477	4915	3150	2/0
06071QR1037M66	3x70 + 3x50/3	53,1	2640	5140	3150	2/0
06070QR1037M67	3x95 + 3x50/3	55,5	3216	5721	4275	3/0
06070QR1037M68	3x120 + 3x70/3	59,2	4128	6869	5400	4/0
06070QR1037M69	3x150 + 3x70/3	64,3	4992	8201	6750	250 MCM
06070QR1037M70	3x185 + 3x95/3	67,3	6240	9515	8325	350 MCM
06070QR1037M71	3x240 + 3x120/3	75,4	8064	12180	10800	450 MCM
06070QR1037M72	3x300 + 3x150/3	80,6	10080	14515	13500	550 MCM

8,7/15 (18) kV F-(N)TSCGEWÖU

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no.)*
06070SR1037M63	3x25 + 3x25/3	44	960	2857	1125	4
06071SR1037M63	3x25 + 3x50/3	45,7	1200	3218	1125	4
06070SR1037M64	3x35 + 3x25/3	46,8	1248	3348	1575	2
06071SR1037M64	3x35 + 3x50/3	46,8	1488	3466	1575	2
06070SR1037M65	3x50 + 3x25/3	51,4	1680	4188	2250	1
06071SR1037M65	3x50 + 3x50/3	51,4	1920	4312	2250	1
06070SR1037M66	3x70 + 3x35/3	54,7	2256	5100	3150	2/0
06071SR1037M66	3x70 + 3x50/3	54,7	2496	5320	3150	2/0
06070SR1037M67	3x95 + 3x50/3	59	3216	6175	4275	3/0
06070SR1037M68	3x120 + 3x70/3	64,1	4128	7540	5400	4/0
06070SR1037M69	3x150 + 3x70/3	67,7	4992	8715	6750	250 MCM
06070SR1037M70	3x185 + 3x95/3	70,7	6240	10035	8325	350 MCM
06070SR1037M71	3x240 + 3x120/3	78,8	8064	12738	10800	450 MCM
06070SR1037M72	3x300 + 3x150/3	84	10080	15118	13500	550 MCM

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ELETTROTEK KABEL® FLEXIMINING® MEDIUM F-(N)TSCGEWÖU

12/20 (24) kV F-(N)TSCGEWÖU

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no.*)
06070UR1037M63	3x25 + 3x25/3	47	960	3140	1125	4
06071UR1037M63	3x25 + 3x50/3	48,7	1200	3312	1125	4
06070UR1037M64	3x35 + 3x25/3	49,8	1248	3672	1575	2
06071UR1037M64	3x35 + 3x50/3	53	1488	3823	1575	2
06070UR1037M65	3x50 + 3x25/3	54,5	1680	4530	2250	1
06071UR1037M65	3x50 + 3x50/3	54,5	1920	4675	2250	1
06070UR1037M66	3x70 + 3x35/3	57,7	2256	5466	3150	2/0
06071UR1037M66	3x70 + 3x50/3	60	2496	5701	3150	2/0
06070UR1037M67	3x95 + 3x50/3	63,4	3216	6780	4275	3/0
06070UR1037M68	3x120 + 3x70/3	67,1	4128	7985	5400	4/0
06070UR1037M69	3x150 + 3x70/3	70,7	4992	9180	6750	250 MCM
06070UR1037M70	3x185 + 3x95/3	75,2	6240	10791	8325	350 MCM
06070UR1037M71	3x240 + 3x120/3	81,8	8064	13290	10800	450 MCM
06070UR1037M72	3x300 + 3x150/3	89,8	10080	16080	13500	550 MCM

14/25 (30) kV F-(N)TSCGEWÖU

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no.*)
06070WR1037M63	3x25 + 3x25/3	50,3	960	3770	1125	4
06071WR1037M63	3x25 + 3x50/3	52,3	1200	3890	1125	4
06070WR1037M64	3x35 + 3x25/3	55,1	1248	4278	1575	2
06071WR1037M64	3x35 + 3x50/3	55,1	1488	4420	1575	2
06070WR1037M65	3x50 + 3x25/3	58,3	1680	5015	2250	1
06071WR1037M65	3x50 + 3x50/3	58,3	1920	5165	2250	1
06070WR1037M66	3x70 + 3x35/3	63	2256	6180	3150	2/0
06071WR1037M66	3x70 + 3x50/3	63	2496	6422	3150	2/0
06070WR1037M67	3x95 + 3x50/3	67,3	3216	7352	4275	3/0
06070WR1037M68	3x120 + 3x70/3	71	4128	8568	5400	4/0
06070WR1037M69	3x150 + 3x70/3	76	4992	10015	6750	250 MCM
06070WR1037M70	3x185 + 3x95/3	79	6240	11420	8325	350 MCM
06070WR1037M71	3x240 + 3x120/3	87,5	8064	14410	10800	450 MCM
06070WR1037M72	3x300 + 3x150/3	92,7	10080	16873	13500	550 MCM

18/30 (36) kV F-(N)TSCGEWÖU

Part no.	No. of cores x cross section n x mm ²	Outer-Ø ca.mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	Tensile strength N	AWG no.*)
06070XR1037M63	3x25 + 3x25/3	55,7	960	4168	1125	4
06071XR1037M63	3x25 + 3x50/3	55,7	1200	4310	1125	4
06070XR1037M64	3x35 + 3x25/3	58,6	1248	4720	1575	2
06071XR1037M64	3x35 + 3x50/3	58,6	1488	4860	1575	2
06070XR1037M65	3x50 + 3x25/3	63,2	1680	5710	2250	1
06071XR1037M65	3x50 + 3x50/3	63,2	1920	5845	2250	1
06070XR1037M66	3x70 + 3x35/3	66,6	2256	6692	3150	2/0
06071XR1037M66	3x70 + 3x50/3	66,6	2496	6912	3150	2/0
06070XR1037M67	3x95 + 3x50/3	70,7	3216	7865	4275	3/0
06070XR1037M68	3x120 + 3x70/3	75,8	4128	9385	5400	4/0
06070XR1037M69	3x150 + 3x70/3	79,5	4992	10670	6750	250 MCM
06070XR1037M70	3x185 + 3x95/3	82,5	6240	12070	8325	350 MCM
06070XR1037M71	3x240 + 3x120/3	91	8064	15080	10800	450 MCM
06070XR1037M72	3x300 + 3x150/3	97,2	10080	17815	13500	550 MCM

Other dimensions and colors available on request.