

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

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

Technical data:

Nominal voltage:	U ₀ /U 3,6/6 kV up to 18/30 kV
Max. permissible operating voltage in A.C. systems:	U ₀ U 4,2/7,2 kV up to 20,8/36 kV
Max. permissible operating voltage in D.C. systems:	U ₀ 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

Features:

conveyor belts!

UV, ozone, and moisture resistant

outdoor use

very flexible

acc. to DIN VDE 0250 part 813

GOST-R 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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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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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.