

MINING CABLES

FLEXIMINING® MEDIUM F-(N)TSCGEWÖU

Optical fiber

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



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
Optical fibers element:	6 fiber-optics laying in 6 free tubes (1 fibers per tube)
Stranding:	phase units laid up with earth-conductors and fiber optics 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 20/35 kV
Max. permissible operating voltage in A.C. systems:	U _o U 4,2/7,2 kV up to 24,3/42 kV
Max. permissible operating voltage in D.C. systems:	U _o U 5,4/10,8 kV up to 31,5/63 kV
Test voltage:	11 kV up to 50 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	
<i>in service:</i>	up to +90°C
<i>in short-circuit:</i>	up to +250°C
Min. bending radius:	acc. to DIN VDE 0298, Part 3
Tensile strenght:	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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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.)*
06080MR1037M63	3x25+2x25/2+6LWL	38,2	960	2635	1125	4
06081MR1037M63	3x25+2x50/2+6LWL	42,1	1200	3070	1125	4
06080MR1037M64	3x35+2x25/2+6LWL	42	1248	3055	1575	2
06081MR1037M64	3x35+2x50/2+6LWL	43,8	1488	3418	1575	2
06080MR1037M65	3x50+2x25/2+6LWL	45,3	1680	3503	2250	1
06081MR1037M65	3x50+2x50/2+6LWL	45,3	1920	3630	2250	1
06080MR1037M66	3x70+2x35/2+6LWL	48,5	2256	4340	3150	2/0
06081MR1037M66	3x70+2x50/2+6LWL	51,7	2496	5270	3150	2/0
06080MR1037M67	3x95+2x50/2+6LWL	54,2	3216	5540	4275	3/0
06080MR1037M68	3x120+2x70/2+6LWL	57,9	4128	7032	5400	4/0
06080MR1037M69	3x150+2x70/2+6LWL	63	4992	8010	6750	250MCM
06080MR1037M70	3x185+2x95/2+6LWL	66	6240	9320	8325	350MCM
06080MR1037M71	3x240+2x120/2+6LWL	74,1	8064	11930	10800	450MCM
06080MR1037M72	3x300+2x150/2+6LWL	79,3	10080	14215	13500	550MCM

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.)*
06080QR1037M63	3x25+2x25/2+6LWL	42,9	960	2515	1125	4
06081QR1037M63	3x25+2x50/2+6LWL	44,6	1200	2945	1125	4
06080QR1037M64	3x35+2x25/2+6LWL	45,1	1248	2975	1575	2
06081QR1037M64	3x35+2x50/2+6LWL	46,2	1488	3340	1575	2
06080QR1037M65	3x50+2x25/2+6LWL	46,6	1680	3630	2250	1
06081QR1037M65	3x50+2x50/2+6LWL	48,3	1920	3790	2250	1
06080QR1037M66	3x70+2x35/2+6LWL	49,9	2256	4515	3150	2/0
06081QR1037M66	3x70+2x50/2+6LWL	54,7	2496	4740	3150	2/0
06080QR1037M67	3x95+2x50/2+6LWL	55,5	3216	5720	4275	3/0
06080QR1037M68	3x120+2x70/2+6LWL	59,2	4128	6875	5400	4/0
06080QR1037M69	3x150+2x70/2+6LWL	64,3	4992	8215	6750	250MCM
06080QR1037M70	3x185+2x95/2+6LWL	68,3	6240	9518	8325	350MCM
06080QR1037M71	3x240+2x120/2+6LWL	75,4	8064	12185	10800	450MCM
06080QR1037M72	3x300+2x150/2+6LWL	80,6	10080	14522	13500	550MCM

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.)*
06080SR1037M63	3x25+2x25/2+6LWL	45,7	960	3066	1125	4
06081SR1037M63	3x25+2x50/2+6LWL	46,9	1200	3339	1125	4
06080SR1037M64	3x35+2x25/2+6LWL	46,8	1248	3317	1575	2
06081SR1037M64	3x35+2x50/2+6LWL	48,5	1488	3718	1575	2
06080SR1037M65	3x50+2x25/2+6LWL	51,4	1680	4172	2250	1
06081SR1037M65	3x50+2x50/2+6LWL	53,2	1920	4595	2250	1
06080SR1037M66	3x70+2x35/2+6LWL	54,7	2256	5074	3150	2/0
06081SR1037M66	3x70+2x50/2+6LWL	56	2496	5651	3150	2/0
06080SR1037M67	3x95+2x50/2+6LWL	59	3216	6170	4275	3/0
06080SR1037M68	3x120+2x70/2+6LWL	64,1	4128	7515	5400	4/0
06080SR1037M69	3x150+2x70/2+6LWL	67,7	4992	8685	6750	250 MCM
06080SR1037M70	3x185+2x95/2+6LWL	70,7	6240	10022	8325	350 MCM
06080SR1037M71	3x240+2x120/2+6LWL	78,8	8064	12741	10800	450 MCM
06080SR1037M72	3x300+2x150/2+6LWL	84	10080	15068	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.*)
06080UR1037M63	3x25+2x25/2+6LWL	47	960	3148	1125	4
06081UR1037M63	3x25+2x50/2+6LWL	48,7	1200	3518	1125	4
06080UR1037M64	3x35+2x25/2+6LWL	49,8	1248	3630	1575	2
06081UR1037M64	3x35+2x50/2+6LWL	53	1488	4235	1575	2
06080UR1037M65	3x50+2x25/2+6LWL	54,5	1680	4540	2250	1
06081UR1037M65	3x50+2x50/2+6LWL	54,5	1920	4700	2250	1
06080UR1037M66	3x70+2x35/2+6LWL	57,7	2256	5468	3150	2/0
06081UR1037M66	3x70+2x50/2+6LWL	60	2496	6051	3150	2/0
06080UR1037M67	3x95+2x50/2+6LWL	63,4	3216	6780	4275	3/0
06080UR1037M68	3x120+2x70/2+6LWL	67,1	4128	7946	5400	4/0
06080UR1037M69	3x150+2x70/2+6LWL	70,7	4992	9125	6750	250 MCM
06080UR1037M70	3x185+2x95/2+6LWL	75,2	6240	10756	8325	350 MCM
06080UR1037M71	3x240+2x120/2+6LWL	81,8	8064	13271	10800	450 MCM
06080UR1037M72	3x300+2x150/2+6LWL	88,3	10080	16036	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.*)
06080WR1037M63	3x25+2x25/2+6LWL	52,3	960	3740	1125	4
06081WR1037M63	3x25+2x50/2+6LWL	52,3	1200	3900	1125	4
06080WR1037M64	3x35+2x25/2+6LWL	55,1	1248	4270	1575	2
06081WR1037M64	3x35+2x50/2+6LWL	55,1	1488	4440	1575	2
06080WR1037M65	3x50+2x25/2+6LWL	58,3	1680	5000	2250	1
06081WR1037M65	3x50+2x50/2+6LWL	58,3	1920	5160	2250	1
06080WR1037M66	3x70+2x35/2+6LWL	63	2256	6190	3150	2/0
06081WR1037M66	3x70+2x50/2+6LWL	63	2496	6390	3150	2/0
06080WR1037M67	3x95+2x50/2+6LWL	67,3	3216	7340	4275	3/0
06080WR1037M68	3x120+2x70/2+6LWL	71	4128	8550	5400	4/0
06080WR1037M69	3x150+2x70/2+6LWL	76	4992	10020	6750	250MCM
06080WR1037M70	3x185+2x95/2+6LWL	79	6240	11410	8325	350MCM
06080WR1037M71	3x240+2x120/2+6LWL	87,5	8064	14380	10800	450MCM
06080WR1037M72	3x300+2x150/2+6LWL	92,7	10080	16820	13500	550MCM

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.*)
06080XR1037M63	3x25+2x25/2+6LWL	55,7	960	4140	1125	4
06081XR1037M63	3x25+2x50/2+6LWL	55,7	1200	4310	1125	4
06080XR1037M64	3x35+2x25/2+6LWL	58,6	1248	4720	1575	2
06081XR1037M64	3x35+2x50/2+6LWL	58,6	1488	4880	1575	2
06080XR1037M65	3x50+2x25/2+6LWL	63,2	1680	5680	2250	1
06081XR1037M65	3x50+2x50/2+6LWL	63,2	1920	5840	2250	1
06080XR1037M66	3x70+2x35/2+6LWL	66,6	2256	6670	3150	2/0
06081XR1037M66	3x70+2x50/2+6LWL	66,6	2496	6870	3150	2/0
06080XR1037M67	3x95+2x50/2+6LWL	70,7	3216	7860	4275	3/0
06080XR1037M68	3x120+2x70/2+6LWL	75,8	4128	9350	5400	4/0
06080XR1037M69	3x150+2x70/2+6LWL	79,5	4992	10630	6750	250 MCM
06080XR1037M70	3x185+2x95/2+6LWL	82,5	6240	12040	8325	350 MCM
06080XR1037M71	3x240+2x120/2+6LWL	91	8064	15070	10800	450 MCM
06080XR1037M72	3x300+2x150/2+6LWL	97,2	10080	17780	13500	550 MCM

20/35 kV (42) kV

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.*)
06080YR1037M66	3x70+2x35/2+6LWL	82	2352	9260	3150	2/0

Other dimensions and colors available on request.