

MINING CABLES

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

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.)*
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.