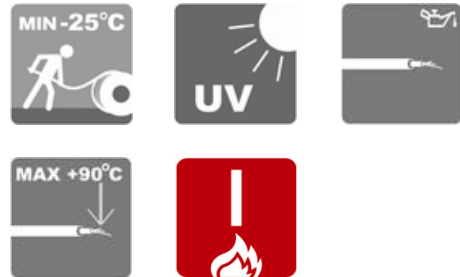


TF-KABLE (N)TMCGCWÖU

Manufactured based on: DIN VDE 0250/813



Medium voltage flexible single core cables



CONSTRUCTION	
Conductors	Annealed flexible stranded tin coated copper conductor, class 5 to IEC 60228
Inner semiconducting layer	Semiconducting layer of special rubber, designed by TF Kable
Insulation	High quality compound, at least type 3GI3 acc. to DIN VDE 0207/20, based on ethylene propylene rubber; Halogen-free, lead-free
Insulation screen	Special strippable layer over insulation of power cores, easy strip (thermo strip) + wrap of semi-conductive textile tape. Maximum resistivity of semi-conductive layers : 200 Ω x m. For very easy cold 'banana' strippability please contact producer.
Earth conductor	The braid of tinned copper wires. Diameter of wires 0,3 mm.
Separator	The wrap of synthetic tape
Outer sheath	A synthetic high grade thermosetting compound based on PCP, type 5GM5 to DIN VDE 0207/21
Colour of outer jacket	Red

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(N)TMCGCWOU_JB230710

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FEATURES

- | | | | | | | |
|---|-----------------|----------------|------------------|-----------------|-----------------|-----------------|
| ▪ Rated Voltage U ₀ /U: | 3,6/6 kV | 6/10 kV | 8,7/15 kV | 12/20 kV | 14/25 kV | 18/30 kV |
| ▪ Max. operating voltage U _m : | 7,2 kV | 12 kV | 18 kV | 24 kV | 30 kV | 36 kV |
| ▪ AC test voltage : | 11 kV | 17 kV | 24 kV | 29 kV | 36 kV | 43 kV |
- Partial discharge: 1,25U₀/max 40 pC
 - Current carrying capacity: DIN VDE 0298-4
 - Max. conductor operating temperature: +90°C
 - Max. conductor temperature during short circuit: +250°C
 - Ambient temperature for fixed installation: -40°C up to +80°C
 - Ambient temperature for mobile installation: -25°C up to +80°C
 - Minimum bending radius acc. to DIN VDE 0298-3:
 - Fixed installation: 6xD
 - On drums: 12xD
 - On deflection pulleys: 15xD
 - Moving freely: 10xD
 - Tensile load: 15N/mm²
 - Oil resistant
 - Excellent tear, impact and abrasion resistant
 - Flame propagation: EN 60332-1-2
 - UV resistant: UL 1581

Sheath marking:

Embossed:

TF KABLE 3 (N)TMCGCWÖU 1x240/25KON 12/20kV year + meter

Standard length cable packing

500 m on drums. Other forms of packing and delivery are available on request

APPLICATIONS

- For connection of switchgear cubicles mobile transformers substations to the overhead lines.
- Other industrial applications.

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Number of cores x cross-section	Conductor diameter	Approx. overall diameter	Approx. weight	Conductor resistance at 20°C
mm ²	mm	mm	kg/km	Ω/km
3,6/6 kV				
1x16/16KON	5,1	20,7	765	1,24
1x25/16KON	6,3	21,9	871	0,795
1x35/16KON	7,3	22,9	984	0,565
1x50/16KON	9,0	25,2	1193	0,393
1x70/16KON	10,8	27,0	1420	0,277
1x95/16KON	12,9	29,1	1671	0,21
1x120/16KON	14,0	32,2	2059	0,164
1x150/25KON	15,8	33,1	2407	0,132
1x185/25KON	18,1	35,3	2747	0,108
1x240/25KON	19,6	37,8	3354	0,0817
1x300/25KON	23,2	41,4	3975	0,0654
1x400/25KON	25,1	43,4	4830	0,0495
1x500/25KON	29,7	49,0	5963	0,0391
1x630/25KON	34,1	53,3	7518	0,0292
6/10 kV				
1x16/16KON	5,1	21,5	797	1,24
1x25/16KON	6,3	22,7	905	0,795
1x35/16KON	7,3	23,7	1020	0,565
1x50/16KON	9,0	26,0	1232	0,393
1x70/16KON	10,8	27,8	1462	0,277
1x95/16KON	12,9	29,9	1717	0,21
1x120/16KON	14,0	32,0	2038	0,164
1x150/25KON	15,8	33,9	2459	0,132
1x185/25KON	18,1	37,1	2884	0,108
1x240/25KON	19,6	38,6	3413	0,0817
1x300/25KON	23,2	42,2	4041	0,0654
1x400/25KON	25,1	44,2	4898	0,0495
1x500/25KON	29,7	49,8	6041	0,0391
1x630/25KON	34,1	54,1	7602	0,0292
8,7/15 kV				
1x16/16KON	5,1	23,7	893	1,24

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Number of cores x cross-section	Conductor diameter	Approx. overall diameter	Approx. weight	Conductor resistance at 20°C
mm ²	mm	mm	kg/km	Ω/km
1x25/16KON	6,3	25,5	1040	0,795
1x35/16KON	7,3	26,5	1160	0,565
1x50/16KON	9,0	28,2	1347	0,393
1x70/16KON	10,8	31,0	1653	0,277
1x95/16KON	12,9	33,1	1922	0,21
1x120/16KON	14,0	34,2	2179	0,164
1x150/25KON	15,8	37,1	2690	0,132
1x185/25KON	18,1	39,3	3048	0,108
1x240/25KON	19,6	40,8	3584	0,0817
1x300/25KON	23,2	44,4	4227	0,0654
1x400/25KON	25,1	46,4	5093	0,0495
1x500/25KON	29,7	52,0	6260	0,0391
1x630/25KON	34,1	56,3	7840	0,0292
12/20 kV				
1x16/16KON	5,1	26,3	1023	1,24
1x25/16KON	6,3	27,5	1142	0,795
1x35/16KON	7,3	28,5	1266	0,565
1x50/16KON	9,0	31,2	1529	0,393
1x70/16KON	10,8	33,0	1778	0,277
1x95/16KON	12,9	35,1	2054	0,21
1x120/16KON	14,0	37,2	2398	0,164
1x150/25KON	15,8	39,1	2838	0,132
1x185/25KON	18,1	41,3	3205	0,108
1x240/25KON	19,6	42,8	3747	0,0817
1x300/25KON	23,2	46,4	4405	0,0654
1x400/25KON	25,1	49,4	5387	0,0495
1x500/25KON	29,7	54,0	6468	0,0391
1x630/25KON	34,1	59,3	8199	0,0292
14/25 kV				
1x16/16KON	5,1	28,9	1161	1,24
1x25/16KON	6,3	31,1	1355	0,795
1x35/16KON	7,3	32,1	1486	0,565
1x50/16KON	9,0	33,8	1693	0,393

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Number of cores x cross-section	Conductor diameter	Approx. overall diameter	Approx. weight	Conductor resistance at 20°C
mm ²	mm	mm	kg/km	Ω/km
1x70/16KON	10,8	35,6	1951	0,277
1x95/16KON	12,9	38,7	2324	0,21
1x120/16KON	14,0	39,8	2594	0,164
1x150/25KON	15,8	41,7	3043	0,132
1x185/25KON	18,1	43,9	3422	0,108
1x240/25KON	19,6	45,4	3971	0,0817
1x300/25KON	23,2	50,0	4758	0,0654
1x400/25KON	25,1	52,0	5645	0,0495
1x500/25KON	29,7	56,6	6750	0,0391
1x630/25KON	34,1	61,9	8560	0,0292
18/30 kV				
1x16/16KON	5,1	32,3	1372	1,24
1x25/16KON	6,3	33,5	1505	0,795
1x35/16KON	7,3	34,5	1642	0,565
1x50/16KON	9,0	37,2	1939	0,393
1x70/16KON	10,8	39,0	2209	0,277
1x95/16KON	12,9	41,1	2511	0,21
1x120/16KON	14,0	42,2	2786	0,164
1x150/25KON	15,8	44,1	3245	0,132
1x185/25KON	18,1	46,3	3633	0,108
1x240/25KON	19,6	48,8	4298	0,0817
1x300/25KON	23,2	52,4	4999	0,0654
1x400/25KON	25,1	54,4	5896	0,0495
1x400/35 KON	25,1	54,4	5993	0,0495
1x500/25KON	29,7	60,0	7157	0,0391
1x500/25KON	29,7	60,0	7250	0,0391
1x630/25KON	34,1	64,3	8854	0,0292

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