

GAALFLEX® CONTROL THHN/THWN-2/MTW

PVC/Nylon insulated single conductor, UL 600 V THHN/THWN-2,MTW



ELETTROTEK KABEL® GAALFLEX® CONTROL THHN/THWN-2/MTW

Construction:

Conductor: Stranded red copper conductor similar Cl. 2,
acc. to ASTM B3 and and B8 Cl C
compressed from 14 up to 2 AWG
acc. to ASTM B3 and and B8 Cl B
unilay compressed from 1 AWG and over

Insulation: black (RAL 9005), PVC/Nylon compound,
acc. to UL 83 and UL 1063,
(other color on request)

Technical data:

Nominal voltage UL: 600 V

Spark tester:
AWG 14 to AWG 10: 7,5 kV
AWG 8 to AWG 2/0: 10 kV
AWG 3/0 to 4/0: 12,5 kV
250 MCM to 500 MCM 15 kV
600 MCM to 1000 MCM 17,5 kV

Temperature range UL:

THHN: up to +90°C dry
THWN-2: up to +90°C wet or dry
MTW: up to +90°C dry
up to +60°C wet

Min. bending radius: 8 x d

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60°C - When terminated to equipment for circuits rated 100 amperes or less or marked for conductor sizes 14 through 1 AWG. For MTW in wet locations or when exposed to oil or coolant.

75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than size 1 AWG. THWN-2 when exposed to oil or coolant.

90°C - THHN dry locations. THWN-2 wet or dry locations. For ampacity derating purposes.

Resistance:



Flame retardant and self-extinguishing:
acc. to DIN VDE 0482 part 265-2-1 / EN 50265-2-1 / IEC 60332-1-2, UL VW-1 (from 14 AWG to 750 MCM)



Oil resistance:
DIN VDE 0473 part 811-2-1, IEC EN 60811-2 and UL 758 75°C

Features:

heat, moisture and flame retardant acc. to UL 83 and UL 1063

SR: sunlight resistance
(only for black version from 1/0 AWG and over)

THHN/THWN-2: GR II, gasoline and oil resistant II, up to 75°C

MTW: PR I, oil resistant I, up to 60°C

abrasion resistance

Cable tray use, CT, from 1/0 AWG and over,
(4/0 AWG and over for green version)

acids resistance

lyes resistance

ozone resistance

small outer diameter

CSA C22. 2 No. 75 on request



UL Standards:

UL listed as type THHN/THWN-2/MTW

acc. to UL 83: Thermoplastic- Insulated Wires and Cables

acc. to UL 1063: MTW, Machine -Tool Wires and Cables
(stranded cables only)

NEMA WC 70 / ICEA S-95-658: Power Cables rated 2000 V or less
for the distribution of electrical energy

Part no.	Cross section AWG/MCM	Outer-Ø inches/mm ± 10%	Copper weight lbs/mft - kg/km	Cable weight approx. lbs/mft - kg/km	Ampacity (A)*		
					60°C	75°C	90°C
31360F01010A14	14	0,11 - 2,79	13,9 - 20,7	16 - 24	15	15	15
31360F01010A12	12	0,13 - 3,3	22,2 - 33	24 - 36	20	20	20
31360F01010A10	10	0,17 - 4,32	34,7 - 51,6	39 - 58	30	30	30
31360F01010A08	8	0,22 - 5,59	54,2 - 80,6	63 - 94	40	50	55
31360F01010A06	6	0,26 - 6,6	84 - 125	98 - 146	55	65	75
31360F01010A04	4	0,33 - 8,38	135,1 - 201	157 - 234	70	85	85
31360F01010A03	3	0,36 - 9,14	170 - 253	193 - 287	86	100	110
31360F01010A02	2	0,39 - 9,91	213 - 317	240 - 357	95	115	130
31360F01010A01	1	0,43 - 10,92	268,1 - 399	300 - 446	110	130	150
31360F01010A1C	1/0	0,47 - 11,94	336 - 500	376 - 560	125	150	170
31360F01010A2C	2/0	0,51 - 12,95	424 - 631	467 - 695	145	175	195
31360F01010A3C	3/0	0,56 - 14,22	532,2 - 792	581 - 865	165	200	225
31360F01010A4C	4/0	0,61 - 15,49	669,3 - 996	724 - 1077	195	230	260
31360F01010A5C	250	0,68 - 17,27	791,6 - 1178	855 - 1272	215	255	290
31360F01010A6C	300	0,73 - 18,54	947,5 - 1410	1022 - 1521	240	285	320
31360F01010A7C	350	0,78 - 19,81	1105,4 - 1645	1191 - 1772	260	310	350
31360F01010A8C	400	0,82 - 20,83	1278,1 - 1902	1345 - 2001	280	335	380
31360F01010AAC	500	0,9 - 22,86	1575,8 - 2345	1668 - 2482	320	380	430
31360F01010ACC	600	0,98 - 24,89	1962,2 - 2920	1994 - 2967	355	420	475
31360F01010AFC	750	1,08 - 27,43	2458,2 - 3658	2465 - 3668	400	475	535

Other dimension and colours available on request.