GAALFLEX® TRAY VFD 1405 600 V

Inverter, connection to frequency converters, UV Resistant,
UL 2277 WTTC 1000 V, UL 1277 TC-ER 600 V 90°C Dry or 90°C Wet



Construction:

CONDUCTOR:	FLEXIBLE RED COPPER CONDUCTOR CL. 5, ACC. TO IEC 60228, DIN VDE 0295 AND UL STANDARD 83
INSULATION:	**FROM 18 AWG UP TO 16 AWG:** GAALTHERM® 520 **FROM 14 AWG AND OVER:** GAALTHERM® 591
CORES COLOR:	**3x..+3g..:** 3 BLACK CONDUCTORS NUMBERED + 3 GREEN-YELLOW CONDUCTORS DIVIDED IN 3 INERTSTICES **3x..+1g.. / 4g..+(2x..) OR 4g..+(2x..+2x..):** BLACK CORES WITH CONSECUTIVE NUMBERS ACC. TO EN 50334 + GREEN/YELLOW
STRANDING:	**3x..+1g..:** CORES TWISTED TOGETHER + FILLERS **3x..+3g..:** PHASE UNITS LAID UP WITH EARTH-CONDUCTORS IN INTERSTICES **4g..+(2x..) or 4g..+(2x..+2x..):** CONTROL CORES TWISTED IN PAIR(S) AND SCREENED, SUPPLY CORES AND CONTROL SCREENED PAIR(S) TWISTED TOGETHER
INDIVIDUAL SCREEN:	**4g..+(2x..) or 4g..+(2x..+2x..):** ALUMINIUM TAPE + PETP FOIL AND TINNED COPPER BRAID 85% COVERAGE +/- 5%
OVERALL SCREEN:	ALUMINIUM TAPE + PETP FOIL AND TINNED COPPER BRAID 85% COVERAGE +/- 5%
OUTER SHEATH:	BLACK (SIMILAR RAL 9005), GAALTHERM® 520

Technical data:

NOMINAL VOLTAGE:	**UL 1277 TC-ER** 600 V **UL 2277 WTTC / FLEXIBLE MOTOR SUPPLY** 1000 V **IEC:** Uo/U 600/1000 V
TEMPERATURE RANGE:	**UL:** UP TO 90°C
FIXED LAYING:	-40 °C UP TO +105 °C
FLEXIBLE INSTALLATION:	-5 °C UP TO +105 °C
MIN. BENDING RADIUS	
FIXED LAYING:	6 x D
FLEXIBLE APPLICATION:	20 x D
*ON CHAIN APPLICATION:	> 10 x D
***CHAIN TRAVEL LENGHT:**	≤ 5 mt
***CHAIN SPEED MAX.:**	≤ 50 mt/min

Resistance:

FLAME RETARDANT AND SELF-EXTINGUISHING ACC.TO:
UL FT4/IEEE 1202
UL 1685

UV RESISTANT / SUNLIGHT RESISTANT ACC. TO:
EN 50396 AND HD 605 A1, UL 1581

Features:

UV RESISTANT

OUTDOOR USE

INSTALLATION IN HAZARDOUS AREAS

ACC. TO UL 2277 WTTC OR FLEXIBLE MOTOR SUPPLY

ACC. TO UL 1277 (OIL-RESISTANT ACCORDING TO UL OIL RES I AND WATER-RESISTANT, UL 90°C DRY OR 90°C WET)

UL ONLY FOR TC-ER USE

ON REQUEST 2000 V VERSION

ON REQUEST C(UL) TYPE CIC/TC FT4, AWM I/II A/B FT4

ON REQUEST DIRECT BURIAL

ACC. TO TO NFPA 79 2007 AND NEC 336.10(7) CLASS 1, DIV. 2 ART. 336, 392, 501

SUITABLE FOR APPLICATION ACC. TO EN 55011, DIN VDE 0875 AND EN 61800-3

SUITABLE FOR CHAIN APPLICATION, SEE TECHNICAL DATA*

ROHS AND CE APPROVAL

UL Standards:

UL 1277

UL 2277

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Part no.	No. of cores x cross section n x AWG/MCM	Outer Ø inches/mm ±10%	Copper weight Lbs/Mft - kg/km	Cable weight approx. Lbs/Mft - kg/km
33290F70041A14	4 g 14	0,456 - 11,4	91,4 - 136	150,5 - 224
33290F70041A12	4 g 12	0,52 - 13	136,4 - 203	209,7 - 312
33290F70041A10	4 g 10	0,612 - 15,3	202,3 - 301	301,1 - 448
33290F70041A08	4 g 8	0,776 - 19,4	323,2- 481	479,8 - 714
33290F70041A06	4 g 6	0,912 - 22,8	489,2- 728	702,2 - 1045
33290F70041A04	4 g 4	1,052 - 26,3	733,8 - 1092	1004 - 1494
33290F70041A02	4 g 2	1,168 - 29,2	1009,3 - 1502	1323,9 - 1970
33290F70041A01	4 g 1	1,384 - 34,6	1446,8 - 2153	1872,9 - 2787
33290F70041A2C	4 g 2/0	1,584 - 39,6	1990,5 - 2962	2526,7 - 3760
33290F70041A3C	4 g 3/0	1,784 - 44,6	2651 - 3945	3332,4 - 4959
33290F70041A4C	4 g 4/0	1,936 - 48,4	3317,7 - 4937	4085,1 - 6079
33290F70041A5C	4 g 250	2,088 - 52,2	4110,6 - 6117	4961,4 - 7383
33290F70041A7C	4 g 350	2,26 - 56,5	5041,3 - 7502	5999 - 8927
33290F70037A10	3 x 10 + 3 g 18	0,608 - 15,2	179,4- 267	252 - 375
33290F70037A08	3 x 8 + 3 g 16	0,724 - 18,1	277,5- 413	378,3 - 563
33290F70037A06	3 x 6 + 3 g 14	0,804 - 20,1	428,7 - 638	552,4 - 822
33290F70037A04	3 x 4 + 3 g 12	0,976 - 24,4	643,8 - 958	824,5 -1227
33290F70037A02	3 x 2 + 3 g 10	1,08 - 27	887,7 - 1321	1077,9 -1604
33290F70037A01	3 x 1 + 3 g 8	1,28 - 32	1308,4 - 1947	1560,4 - 2322
33290F70037A1C	3 x 1/0 + 3 g 10	1,295 - 32,9	/ - /	1669 - 2484
33290F70037A2C	3 x 2/0 + 3 g 8	1,46 - 36,5	1714,3 - 2551	1992,5 - 2965
33290F70037A3C	3 x 3/0 + 3 g 6	1,592 - 39,8	2332,5 - 3471	2598 - 3866
33290F70037A4C	3 x 4/0 + 3 g 6	1,788 - 44,7	2835,2 - 4219	3198,7 - 4760
33290F70037A5C	3 x 250 + 3 g 4	1,928 - 48,2	3608,6 - 5370	3972,9 - 5912
33290F70037A7C	3 x 350 + 3 g 2	2,084 - 52,1	4497,7 - 6693	4831,7 - 7190
33290F70037AAC	3 x 500 + 3 g 6	2,365 - 60,1	/ - /	6392 - 9511

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33290F7004BA14	4 g 14 + (2 x 18)C	0,608 - 15,2	135,7 - 202	229,2 - 341
33290F7004BA12	4 g 12 + (2 x 18)C	0,66 - 16,5	179,4 - 267	284,2 - 423
33291F7004BA14	4 g 14 + (2 x 16)C	0,63 - 15,7	149,9 - 223	246 - 366
33291F7004BA12	4 g 12 + (2 x 16)C	0,68 - 17	193,5 - 288	302,4 - 450
33291F7004BA10	4 g 10 + (2 x 16)C	0,72 - 18	245,3 - 365	359,6 - 535
33291F7004BA08	4 g 8 + (2 x 16)C	0,912 - 22,8	366,9 - 546	567,9 - 845
33291F7004BA06	4 g 6 + (2 x 16)C	1 - 25	528,9 - 787	747,9 - 1113
33292F7004BA14	4 g 14 + (2 x 14)C	0,638 - 16,2	162,6 - 242	256,7 - 382
33292F7004BA12	4 g 12 + (2 x 14)C	0,697 - 17,7	207 - 308	309,8 - 461
33292F7004BA10	4 g 10 + (2 x 14)C	0,744 - 18,9	264,1 - 393	323,9 - 482
33292F7004BA08	4 g 8 + (2 x 14)C	0,913 - 23,2	384,4 - 572	514,8 - 766
33292F7004BA06	4 g 6 + (2 x 14)C	1,012 - 25,7	545 - 811	708,3 - 1054
33292F7004BA04	4 g 4 + (2 x 14)C	1,138 - 28,9	788,9 - 1174	992,5 - 1477
33292F7004BA02	4 g 2 + (2 x 14)C	1,268 - 32,2	1058,4 - 1575	1297 - 1930
33292F7004BA01	4 g 1 + (2 x 14)C	1,504 - 38,2	1493,9 - 2223	1842,6 - 2742
33292F7004BA2C	4 g 2/0 + (2 x 14)C	1,72 - 43,7	2036,8 - 3031	2483 - 3695
33290F7004B900	4 g 14 + (2 x 18)C + (2 x 18)C	0,692 - 17,3	173,4 - 258	287,6 - 428
33290F7004B901	4 g 12 + (2 x 18)C + (2 x 18)C	0,74 - 18,5	216,4 - 322	346,1 - 515
33290F7004B902	4 g 12 + (2 x 18)C + (2 x 16)C	0,76 - 19	224,4 - 334	358,2 - 533
33290F7004B903	4 g 10 + (2 x 18)C + (2 x 16)C	0,8 - 20	283,6 - 422	424,7 - 632
33290F7004B904	4 g 8 + (2 x 18)C + (2 x 16)C	0,98 - 24,4	401,2 - 597	633 - 942
33290F7004B905	4 g 6 + (2 x 16)C + (2 x 16)C	1,08 - 27	571,9 - 851	826,6 - 1230
33290F7004B906	4 g 12 + (2 x 14)C + (2 x 14)C	0,78 - 19,8	266,1 - 396	396,5 - 590
33290F7004B907	4 g 10 + (2 x 14)C + (2 x 14)C	0,87 - 22,1	317,9 - 473	494,6 - 736
33290F7004B908	4 g 8 + (2 x 14)C + (2 x 14)C	1,004 - 25,5	435,5 - 648	665,3 - 990
33290F7004B909	4 g 6 + (2 x 14)C + (2 x 14)C	1,138 - 28,9	608,8 - 906	905,2- 1347
33290F7004B910	4 g 4 + (2 x 14)C + (2 x 14)C	1,268 - 32,2	883,7 - 1315	1210,9 - 1802
33290F7004B911	4 g 2 + (2 x 14)C + (2 x 14)C	1,362 - 34,6	1141,7 - 1699	1485,8 - 2211

Other dimension and colours available on request.