

# POWER AND CONTROL CABLES

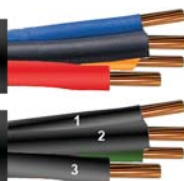
## GAALFLEX® TRAY 600 XR

Special XLPE UV and oil resistant, rigid tray cable,  
UL Type TC/TC-ER 600V, 90°C dry or wet



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### Construction:

<b>Conductor:</b>	Stranded red copper conductor similar Cl. 2, acc. to ASTM B3 and B8
<b>Insulation:</b>	special XLPE type XHHW-2, flame retardant, acc. to UL 44 and ICEA S-95-658
<b>Colour cores:</b>	14 AWG up to 10 AWG from 2 up to 37 conductors, acc. to ICEA S-73-532 table E2 method 1 over 38 conductors, acc. to ICEA S-73-532 method 4, black numbered 8 AWG up to 750 MCM, acc. to ICEA S-73-532 method 4, black numbered
<b>Ground-Conductor insulation:</b>	<i>ground conductor with different section than the phase conductor:</i> 14 AWG up to 6 AWG, green insulation, acc. to UL 1277 4 AWG and Larger, uninsulated, acc. to UL 1277  <i>ground conductor with same section than the phase conductor:</i> green insulation, acc. to UL 1277
<b>Stranding:</b>	in layers + fillers
<b>Wrapping:</b>	synthetic tape
<b>Ripcord:</b>	nylon ripcord under outer sheath
<b>Outer sheath:</b>	black (RAL 9005), special PVC oil and UV resistance compound, flame retardant acc. to UL 1277

### Technical data:

<b>Nominal voltage UL:</b>	600 V
<b>Test voltage:</b>	4 kV
<b>Temperature range UL:</b>	up to +90°C
<i>Fixed laying:</i>	- 25°C
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg
<b>Min. bending radius:</b>	
<i>Fixed laying:</i>	5 x d
<i>During Installation pull-in:</i>	8 x d

### Resistance:



**Fire performance acc. to:**  
acc. to UL 1685 and IEEE 383  
vertical fire tests at 70,000 BTU/hr  
acc. to IEEE 1202 and FT4,  
70,000 BTU/hr flame test  
acc. to ICEA T-29-520,  
210,000 BTU/hr flame test  
  
14 AWG up to 8 AWG acc. to VW-1  
6 AWG and larger are not acc. to VW-1

### Features:

cable for tray use  
outdoor use  
sunlight and moisture and weather resistance  
DIRECT BURIAL  
LEAD FREE  
UL listed for Exposed Run (ER), acc. to NEC 2008  
and NEC 2011 Article 336.10(7)  
  
acc. to ICEA S-95-658, NEMA publication No. WC-70  
  
suitable in class I Division 2 and Class 2 Division 2  
Hazardous Locations and intrinsically safe application  
acc. to NEC 2008 and NEC 2011 articles 392, 501, 502, 503, 505  
acc. to NEC 2008 and NEC 2011 articles 336.10 and 725  
for class 1 circuits  
acc. to NEC 2008 and NEC 2011 articles 336.10 and 760.27  
for non-power-limited- alarm circuit  
on request cables sized 4 AWG and larger  
with green insulation ground conductor  
on request ground conductor for *Multiconductor sections:*  
identified with "1" on the 11th number, of the Part. no,  
for sections from 3 up to 37 conductors,  
identified with "0" on the 8th number, and "1" on the 11th number  
of the Part. no, for sections over 38 conductors  
on request aluminium conductors for size 12 AWG  
up to 1000 kcmil  
on request aluminium/mylar tape screen  
(with or without tinned copper drain wire)  
on request Oil resistant I or Oil resistant II outer sheath  
on request 2000 V cables with RHH/RHW-2 insulated conductors  
RoHS approval



### UL Standards

TC TC/ER: UL Standard 1277 Dry or Wet 90°C 600 V  
UL 44 thermoset insulation

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2/3/4 CONDUCTORS + GROUND CONDUCTOR WITH DIFFERENT SECTION THAN THE PHASE CONDUCTOR

Part no.	No. of cores x cross section n x AWG/MCM	Outer-Ø inches/mm ± 10%	Outer-Ø inches/mm ± 10%	Cable weight approx. lbs/mft - kg/km	Cable weight approx. lbs/mft - kg/km
32030F7T025A4C	2 x 4/0 + 1 G 4	1,409	35,8	1815	2700
32030F70035A08	3 x 8 + 1 G 10	0,673	17,1	336	500
32030F70035A06	3 x 6 + 1 G 8	0,775	19,7	464	690
32030F70035A04	3 x 4 + 1 G 8	0,826	21	625	930
32030F70035A03	3 x 3 + 1 G 6	0,925	23,5	853	1270
32030F70035A02	3 x 2 + 1 G 6	0,996	25,3	954	1420
32030F70035A01	3 x 1 + 1 G 6	1,102	28	1230	1830
32030F70035A1C	3 x 1/0 + 1 G 6	1,189	30,2	1398	2080
32030F70035A2C	3 x 2/0 + 1 G 6	1,279	32,5	1700	2530
32030F70035A3C	3 x 3/0 + 1 G 4	1,409	35,8	2184	3250
32030F70035A4C	3 x 4/0 + 1 G 4	1,545	39,3	2540	3780
32030F70035A5C	3 x 250 + 1 G 4	1,642	41,7	2984	4440
32030F70035A6C	3 x 300 + 1 G 3	1,807	45,9	3447	5130
32030F70035A7C	3 x 350 + 1 G 3	1,941	49,3	4119	6130
32030F70035A8C	3 x 400 + 1 G 3	2,027	51,5	4865	7240
32030F70035AAC	3 x 500 + 1 G 2	2,197	55,8	5719	8510
32030F70035AFC	3 x 750 + 1 G 1	2,578	65,5	8620	12825
32030F70045A08	4 x 8 + 1 G 10	0,740	18,8	403	600
32030F70045A06	4 x 6 + 1 G 8	0,897	22,8	605	900
32030F70045A04	4 x 4 + 1 G 8	0,956	24,3	826	1230
32030F70045A03	4 x 3 + 1 G 6	1,043	26,5	1055	1570
32030F70045A02	4 x 2 + 1 G 6	1,102	28	1210	1800
32030F70045A01	4 x 1 + 1 G 6	1,232	31,3	1498	2230
32030F70045A1C	4 x 1/0 + 1 G 6	1,319	33,5	1808	2690
32030F70045A2C	4 x 2/0 + 1 G 6	1,425	36,2	2184	3250
32030F70045A3C	4 x 3/0 + 1 G 6	1,543	39,2	2701	4020
32030F70045A4C	4 x 4/0 + 1 G 4	1,665	42,3	3279	4880
32030F70045A5C	4 x 250 + 1 G 4	1,890	48	3978	5920
32030F70045A6C	4 x 300 + 1 G 3	2,019	51,3	4690	6980
32030F70045A7C	4 x 350 + 1 G 3	2,126	54	5362	7980
32030F70045A8C	4 x 400 + 1 G 3	2,240	56,9	6075	9040
32030F70045AAC	4 x 500 + 1 G 2	2,433	61,8	7459	11100
32030F70045AFC	4 x 750 + 1 G 1	2,92	74,2	11390	16950

2/3/4 CONDUCTORS + GROUND CONDUCTOR WITH THE SAME SECTION THAN THE PHASE CONDUCTOR

Part no.	No. of cores x cross section n x AWG/MCM	Outer-Ø inches/mm ± 10%	Outer-Ø inches/mm ± 10%	Cable weight approx. lbs/mft - kg/km	Cable weight approx. lbs/mft - kg/km
32030F7T031A14	2 x 14 + 1 G 14	0.381	9,7	85	126
32030F7T031A12	2 x 12 + 1 G 12	0.422	10,7	114	170
32030F7T031A10	2 x 10 + 1 G 10	0.469	11,9	159	237
32030F70031A08	2 x 8 + 1 G 8	0.62	15,7	259	385
32030F70031A06	2 x 6 + 1 G 6	0.72	18,3	403	600
32030F70031A04	2 x 4 + 1 G 4	0.87	22,1	498	741
32030F70031A02	2 x 2 + 1 G 2	0.99	25,1	760	1131
32030F70031A01	2 x 1 + 1 G 1	1.1	27,9	1191	1772
32030F70031A2C	2 x 2/0 + 1 G 2/0	1.28	32,5	1496	2226
32030F70031A3C	2 x 3/0 + 1 G 3/0	1.39	35,3	2058	3062
32030F70031A4C	2 x 4/0 + 1 G 4/0	1.51	38,4	2323	3456
32030F7T041A16	3 x 16 + 1 G 16	0.346	8,8	87	129
32030F7T041A14	3 x 14 + 1 G 14	0.416	10,6	106	158
32030F7T041A12	3 x 12 + 1 G 12	0.479	12,2	147	219
32030F7T041A10	3 x 10 + 1 G 10	0.553	14	215	319
32030F70041A08	3 x 8 + 1 G 8	0.726	18,4	359	534
32030F70041A06	3 x 6 + 1 G 6	0.868	22	575	855
32030F70041A04	3 x 4 + 1 G 4	0.993	25,2	805	1198
32030F70041A02	3 x 2 + 1 G 2	1.155	29,3	1193	1775
32030F70041A00	3 x 1 + 1 G 1	1.21	30,7	1268	1887
32030F70041A2C	3 x 2/0 + 1 G 2/0	1.42	36,1	1972	2934
32030F70041A3C	3 x 3/0 + 1 G 3/0	1.53	38,9	2455	3653
32030F70041A4C	3 x 4/0 + 1 G 4/0	1.73	43,9	3065	4560
32030F70041AAC	3 x 500 + 1 G 500	2.4	61	6973	10374
32030F7T051A12	4 x 12 + 1 G 12	0.55	14	196	292
32030F7T051A10	4 x 10 + 1 G 10	0.610	15,5	282	420
32030F70051A04	4 x 4 + 1 G 4	1.09	27,7	961	1430
32030F70051A02	4 x 2 + 1 G 2	1.236	31,4	1651	2456

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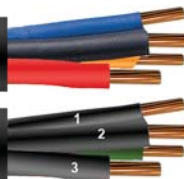
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MULTICONDUCTOR:

Part no.	No. of cores x cross section n x AWG/MCM	Outer-Ø inches/mm ± 10%	Cable weight approx. lbs/mft - kg/km
32030F7T020A14	2 x 14	0,386	77
32030F7T030A14	3 x 14	0,406	97
32030F7T040A14	4 x 14	0,445	121
32030F7T050A14	5 x 14	0,488	148
32030F7T060A14	6 x 14	0,528	175
32030F7T070A14	7 x 14	0,528	188
32030F7T080A14	8 x 14	0,602	218
32030F7T090A14	9 x 14	0,646	242
32030F7T100A14	10 x 14	0,689	269
32030F7T110A14	11 x 14	0,697	289
32030F7T120A14	12 x 14	0,717	309
32030F7T130A14	13 x 14	0,732	329
32030F7T140A14	14 x 14	0,756	349
32030F7T150A14	15 x 14	0,772	370
32030F7T190A14	19 x 14	0,858	457
32030F7T200A14	20 x 14	0,866	477
32030F7T250A14	25 x 14	1,012	618
32030F7T300A14	30 x 14	1,079	726
32030F7T350A14	35 x 14	1,142	827
32030F7T370A14	37 x 14	1,181	874
32030F71400A14	40 x 14	1,201	934
32030F71450A14	45 x 14	1,272	1035
32030F71500A14	50 x 14	1,323	1136
32030F7T020A12	2 x 12	0,421	94
32030F7T030A12	3 x 12	0,445	113
32030F7T040A12	4 x 12	0,488	128
32030F7T050A12	5 x 12	0,539	158
32030F7T060A12	6 x 12	0,614	188
32030F7T070A12	7 x 12	0,614	198
32030F7T080A12	8 x 12	0,661	228
32030F7T090A12	9 x 12	0,713	263
32030F7T100A12	10 x 12	0,756	298
32030F7T110A12	11 x 12	0,772	318
32030F7T120A12	12 x 12	0,799	348
32030F7T130A12	13 x 12	0,815	368
32030F7T120A12	12 x 12	0,839	408
32030F7T150A12	15 x 12	0,862	458
32030F7T190A12	19 x 12	0,957	559
32030F7T200A12	20 x 12	0,996	599
32030F7T250A12	25 x 12	1,118	753
32030F7T300A12	30 x 12	1,193	861
32030F7T350A12	35 x 12	1,268	1019
32030F7T370A12	37 x 12	1,268	1084
32030F71400A12	40 x 12	1,339	1297
32030F71450A12	45 x 12	1,417	1445
32030F71500A12	50 x 12	1,469	1586
32030F7T020A10	2 x 10	0,472	131
32030F7T030A10	3 x 10	0,496	158
32030F7T040A10	4 x 10	0,547	198
32030F7T050A10	5 x 10	0,634	238
32030F7T060A10	6 x 10	0,689	278
32030F7T070A10	7 x 10	0,689	298
32030F7T080A10	8 x 10	0,744	338
32030F7T090A10	9 x 10	0,803	388
32030F7T100A10	10 x 10	0,858	438
32030F7T110A10	11 x 10	0,913	488
32030F7T120A10	12 x 10	0,937	518
32030F7T130A10	13 x 10	0,953	538
32030F7T120A10	14 x 10	0,984	578
32030F7T150A10	15 x 10	1,016	618
32030F7T200A10	20 x 10	1,130	758
32030F7T250A10	25 x 10	1,264	898
32030F7T300A10	30 x 10	1,346	1038
32030F7T350A10	35 x 10	1,433	1178
32030F71400A10	40 x 10	1,512	1318
32030F71450A10	45 x 10	1,606	1458
32030F71500A10	50 x 10	1,665	1598
32030F7T050A08	5 x 8	0,778	407
32030F7T070A08	7 x 8	0,891	477
32030F7T120A08	12 x 8	1,171	647