

## GAALFLEX® VFD 600 Type MC HL

XLPE/PVC, Low voltage variable frequency drive systems, UL 1569 type MC, UL 2225 HL 600V 90°C Dry or wet



ELETTROTEK KABEL® GAALFLEX® VFD Type MC HL  
 UL approved Type MC 600 V  
 UL 44, UL 1569, UL 2225, ICEA S-73-532,  
 CSA C 22.2 No. 123-08, CSA C 22.2 No. 174-M1984

### Construction:

<b>Conductor:</b>	stranded red copper, acc.to ASTM B-3 and ASTM B-8
<b>Insulation:</b>	special XLPE type XHHW-2, acc. to UL 44
<b>Ground conductor:</b>	stranded red copper, acc.to ASTM B-3 and ASTM B-8
<b>Ground conductor insulation:</b>	uninsulated
<b>Cores color:</b>	from 14 AWG to 2 AWG: acc. to ICEA S-73 532 table E2 method #1 from 1 AWG to 500 MCM: acc. to ICEA S-73 532 method #4
<b>Stranding:</b>	phase units laid up with uninsulated ground-conductors + non hygroscopic filler (if necessary) in interstices
<b>Wrapping:</b>	synthetic tape
<b>Armour:</b>	corrugated and welded aluminium tape
<b>Outer Sheath:</b>	black (similar RAL 9005), special PVC compound, acc. to UL1569

### Resistance:



#### Flame test acc. to:

acc. to UL 1685 and IEEE 383 vertical tray fire test  
 at 70,000 BTU/hr IVEA T-29-520 210,000 BTU/hr  
 acc. to IEC 60332-3-22,  
 IEEE 1202 and CSA FT4

### Technical data:

<b>Nominal voltage UL:</b>	600 V
<b>Temperature range UL:</b>	
<i>Fixed laying:</i>	- 25 °C up to + 90 °C (- 40°C bend, with precautions)
<i>Max. operating temp:</i>	up to +130°C
<i>Short circuit temp:</i>	up to +250°C
<b>Min. bending radius:</b>	
<i>Fixed laying:</i>	7 x d
<i>Flexible application:</i>	12 x d

### Features:

- LEAD FREE
- UL approval cables Type MC, 600 V
- UL approval for insulation conductors
- Designed type MC acc. to NEC 2008 and NEC 2011 Article 330
- American Bureau of Shipping (ABS) listed as CWC MC Type MC corrugated and welded aluminium tape protect from moisture, gases and liquids
- UV resistant
- direct burial
- suitable for cable tray
- high mechanical resistance
- On request is possible:  
UL 1309 approval

### UL Standards:

- UL standard 44, XHHW-2 600 V conductors
- UL standard 1569, type MC cables
- UL standard 2225, for Hazardous locations

### CSA Standards:

- CSA C22.2 No. 123-08 for Aluminium sheathed cable
- CSA C22.2 No. 174-M1984 for Hazardous location

# GAALFLEX® VFD CABLES

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 CSA C 22.2 No. 123-08, CSA C 22.2 No. 174-M1984

Part no.	No. of cores x cross section n x AWG/MCM	Outer Ø Inches/mm ±10%	Cable weight approx. Lbs/Mft-kg/km
46450F7T037A14	3 x 14 + 3 x 18	0,67 - 17	201 - 299
46450F7T037A12	3 x 12 + 3 x 16	0,67 - 17	227 - 338
46450F7T037A10	3 x 10 + 3 x 14	0,73 - 18,5	313 - 466
46450F7T037A08	3 x 8 + 3 x 14	0,84 - 21,3	414 - 616
46450F7T037A06	3 x 6 + 3 x 12	0,91 - 23,1	543 - 808
46450F7T037A04	3 x 4 + 3 x 12	1,04 - 26,4	736 - 1095
46450F7T037A02	3 x 2 + 3 x 10	1,23 - 31,2	1098 - 1634
46450F71037A01	3 x 1 + 3 x 10	1,32 - 33,5	1331 - 1981
46450F71037A1C	3 x 1/0 + 3 x 10	1,47 - 37,3	1593 - 2370
46450F71037A2C	3 x 2/0 + 3 x 10	1,5 - 38,1	1883 - 2802
46450F71037A3C	3 x 3/0 + 3 x 8	1,74 - 44,2	2400 - 3571
46450F71037A4C	3 x 4/0 + 3 x 8	1,87 - 47,5	2910 - 4330
46450F71037A5C	3 x 250 MCM+ 3 x 8	2,06 - 52,3	3317 - 4936
46450F71037A7C	3 x 350 MCM+ 3 x 6	2,16 - 54,9	4375 - 6510
46450F71037AAC	3 x 500 MCM + 3 x 6	2,5 - 63,5	6027 - 8969

Other dimension and colours available on request.