

# DATA AND INSTRUMENTATION CABLES

## GAALFLEX® TRAY INSTRUMENTATION 600 STOS PVC

Special triads PVC-Nylon/PVC UV and oil resistant, with individual and overall Aluminium tape screen, TC-ER 90°C 600V Dry or wet, UL 1277 type TC



ELETTROTEK KABEL® GAALFLEX® INSTRUMENTATION 600 STOS PVC



### Construction:

<b>Conductor:</b>	Stranded red copper, acc.to ASTM B-3, Class B and ASTM B-8
<b>Insulation:</b>	special PVC/Nylon type TFN acc. to UL 66, flame-retardant 90°C
<b>Colour cores:</b>	acc. to ICEA table E1: pairs: black, white and red numbered
<b>Stranding:</b>	in triads
<b>Screen:</b>	
<i>Individual:</i>	aluminium tape + PETP foil, + tinned copper drain wire
<i>Overall:</i>	aluminium tape + PETP foil, + tinned copper drain wire
<b>Ripcord:</b>	nylon ripcord under outer sheath
<b>Outer sheath:</b>	black (RAL 9005), special PVC compound, flame retardant and UV resistance

### Technical data:

<b>Nominal voltage UL:</b>	600 V
<b>Test voltage:</b>	4 kV
<b>Temperature range UL:</b>	
<i>Dry:</i>	up to +90°C
<i>Wet:</i>	up to +75°C
<b>Min. bending radius:</b>	
<i>Fixed laying:</i>	5 x d
<i>During Installation:</i>	8 x d

### Resistance:



**Fire performance acc. to:**  
UL 1685 / IEEE 383  
vertical fire test at 70.000 BTU/hr

### Features:

cable for tray use  
outdoor use  
sunlight moisture and weather resistance  
oil and gasoline resistance due to PVC/Nylon insulation  
DIRECT BURIAL  
LEAD FREE  
suitable for use in cable trays, raceways, conduit or for aerial applications where installed with a messenger  
type TC acc. to NEC 2008 and NEC 2011 Article 336  
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  
suitable in class 1 circuits, acc. to NEC 2008 and NEC 2011 articles 336.10 and 725 for type TC cables  
suitable for nonpower-limited alarm circuits acc. to NEC 2008 and NEC 2011 articles 336.10 and 760.46  
on request tinned copper conductors  
on request welded and corrugated aluminium armor and PVC outer sheath  
on request interlocked aluminium armour with or without PVC outer sheath  
RoHS approval



### UL Standards

**TC: UL Standard 1277 Dry or Wet 90°C 600 V**

**UL 66: fixture for 18/16 AWG, type TFN 90°C 600 V**

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Part no.	No. of triad(s) x cross section n x AWG	Outer-Ø Inches/mm ± 10%	Copper weight Lbs/Mft - kg/km	Cable weight approx. Lbs/Mft - kg/km
32171F7K023A18	2 x 3 x 18	0,453 - 11,51	-	117 - 170
32171F7K043A18	4 x 3 x 18	0,557 - 14,15	-	190 - 283
32171F7K083A18	8 x 3 x 18	0,718 - 18,24	-	327 - 487
32171F7K103A18	10 x 3 x 18	0,882 - 22,4	-	432 - 643
32171F7K123A18	12 x 3 x 18	0,909 - 23,09	-	495 - 737
32171F7K163A18	16 x 3 x 18	1,008 - 25,6	-	628 - 935
32171F7K203A18	20 x 3 x 18	1,118 - 28,4	-	762 - 1134
32171F7K243A18	24 x 3 x 18	1,242 - 31,55	-	899 - 1338
32171F7K363A18	36 x 3 x 18	1,421 - 36,09	-	1279 - 1903
32171F7K503A18	50 x 3 x 18	1,734 - 44,04	-	1826 - 2717
32171F7K023A16	2 x 3 x 16	0,509 - 12,93	-	156 - 232
32171F7K043A16	4 x 3 x 16	0,624 - 15,85	-	253 - 377
32171F7K083A16	8 x 3 x 16	0,81 - 20,57	-	444 - 661
32171F7K103A16	10 x 3 x 16	0,993 - 25,22	-	581 - 865
32171F7K123A16	12 x 3 x 16	1,024 - 26,01	-	671 - 999
32171F7K163A16	16 x 3 x 16	1,138 - 28,91	-	858 - 1277
32171F7K203A16	20 x 3 x 16	1,265 - 32,13	-	1046 - 1557
32171F7K243A16	24 x 3 x 16	1,408 - 35,76	-	1238 - 1842
32171F7K363A16	36 x 3 x 16	1,615 - 41,02	-	1777 - 2644
32171F7K503A16	50 x 3 x 16	1,967 - 49,96	-	2523 - 3755

Other dimensions and colors available on request.