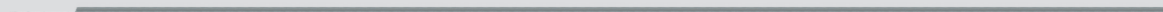


HELUFLO[®]-PTFE-5Y (-190°C to +260°C), single core

Fluorinated polymeric materials



Technical data

- Fluorinated polymeric insulation PTFE (Polytetrafluorethylene)
- Design to DIN VDE 0881 and IEC 60673
- **Temperature range**
-190°C to +260°C
(up to +300°C for short time)
- **Nominal voltage** type E = 600 V, type EE = 1000 V
- **Test voltage** 2500 V
- **Insulation resistance**
min. 1 GOhm x km
- **Minimum bending radius**
10 x cable Ø
- **Radiation resistance**
up to 1 x 10⁵ cJ/kg (up to 0,1 Mrad)

Features

- Higher insulation resistance
- Low dielectric loss
- Not flammable
- Min. 20 kV dielectric strength
- Resistant to micro-cultures
- Do not permit any fungus-formation
- Absolute ozone resistant
- Absolute weather resistant
- Water absorption < 0,01%
- Minimal water vapour permeability (approx. 0,18 mgr/cm² in 24 hours)

Cable structure

- Stranded copper wire, bare, tinned, silver or nickel-plated
- Stranded wire make-up fine stranded to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Core insulation PTFE-HELUFLO[®] to DIN VDE 0207 part 6
- Cores colour coded
 - single core:
preferred colours:
white, brown, green, yellow, grey, blue, red, black
- Outer jacket PTFE-HELUFLO[®]
- PTFE as per MIL-W 16878
- Self-extinguishing and flame retardant, test method B according to DIN VDE 0472, part 804 and IEC 60332-1

Conductor temperature range

- plain copper = +130°C
- tinned copper = +180°C
- silver pl. copper = +200°C
- nickel pl. copper = +300°C

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Application

Teflon cables are predominantly used for installing in control cabinets subjected to high thermal effects as well as in brick-works, heaters, kitchen fitments and measuring appliances as well as in the chemical industry. These cables are non-flammable and resistant to acids, alkalis, solvents, oil and petrol.

CE = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

HELUFLO[®]-PTFE (5Y), 600 V

(preferably in stock with silver plated conductor up to 205°C)

Part No.	AWG-no.*) Stranding	Cross-sec mm ²	Typ E 600 Volt Outer Ø ca. mm	Weight ca. kg / km
single core**				
2511	32 (7)	0,03	0,74	0,38
2512	30 (7)	0,06	0,81	0,59
2513	28 (7)	0,09	0,89	0,93
2514	26 (7)	0,14	0,99	1,47
2515	26(19)	0,14	0,99	1,58
2516	24 (7)	0,21	1,12	2,31
2517	24(19)	0,24	1,12	2,52
2518	22 (7)	0,35	1,27	3,68
2519	22(19)	0,38	1,27	3,99
2520	20 (7)	0,57	1,47	6,00
2521	20(19)	0,57	1,47	6,40
2522	18 (7)	0,90	1,74	9,45
2523	18(19)	0,95	1,74	10,20
2524	16(19)	1,23	2,04	12,90
2525	14(19)	1,94	2,40	20,30

HELUFLO[®]-PTFE (5Y), 1000 V

(preferably in stock with silver plated conductor up to 205°C)

Part No.	AWG-no.*) Stranding	Cross-sec. mm ²	Typ EE 1000 Volt Outer Ø ca. mm	Weight ca. kg / km
single core**				
2531	32 (7)	0,03	1,00	0,42
2532	30 (7)	0,06	1,07	0,65
2533	28 (7)	0,09	1,14	1,00
2534	26 (7)	0,14	1,24	1,56
2535	26(19)	0,14	1,24	1,68
2536	24 (7)	0,21	1,37	2,40
2537	24(19)	0,24	1,37	2,65
2538	22 (7)	0,35	1,52	3,85
2539	22(19)	0,38	1,52	4,20
2540	20 (7)	0,57	1,72	6,30
2541	20(19)	0,57	1,72	6,90
2542	18 (7)	0,90	2,00	10,65
2543	18(19)	0,95	2,00	13,65
2544	16(19)	1,23	2,26	21,38
2545	14(19)	1,94	2,67	33,95

*) Note

AWG sizes are approximate equivalent values.
The actual cross-section is in mm² – see page T 15.

** Please complete the above part-no. for the colour required using the following table:

- ___ 1 black
- ___ 2 red
- ___ 3 blue
- ___ 4 brown
- ___ 5 white
- ___ 6 transparent
- ___ 7 twintone
- ___ 8 other colours

PVC cables will be changed to lead free PVC successively.

Insulation and jacket type abbreviations

DIN/VDE Material

- 12Y PETP = Polyethylenterephthalate
- 11Y PUR = Polyurethane
- 7Y ETFE = Ethylentetrafluorethylen
- 6Y FEP = Perfluoroethylene-propylene
- 5Y PTFE = Polytetrafluorethylen
- 5YX PFA = Perfluoralkoxy