

HELUFLO[®] -PTFE-5Y fluorinated polymeric materials, single core, 600V / 1000V




Technical data

- Fluorinated polymeric insulation PTFE (Polytetrafluorethylene)
- Design to DIN VDE 0881 an 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**
type E = 3,4 kV
type EE = 5 kV
- **Insulation resistance**
min. 1 GOhm x km
- **Minimum bending radius**
10x cable Ø
- **Radiation resistance**
up to 1x10⁵ cJ/kg (up to 1 Mrad)
- **Conductor temperature range**
plain copper +130°C
tinned copper +180°C
silver pl. copper +200°C
nickel pl. copper +300°C

Cable construction

- Stranded copper wire, bare, tinned, silver or nickel-plated
- Core insulation PTFE-HELUFLO[®] to DIN VDE 207 part 6
- Cores colour coded
- Outer jacket PTFE-HELUFLO[®]
- PTFE as per MIL-W 16878

Properties

- Higher insulation resistance
- Low dielectric loss
- Not flammable
- Min. 20 kV dielectric voltage
- 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)
- Self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- 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

Application

Teflon cables are predominantly used for installing in control cabinets subjected to high thermal effects as well as in brickworks, 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.

600V						1000V					
Part No.	AWG-no.	No. cond.	Cross-sec. mm ²	Outer ø ca. mm	Weight ca. kg / km	Part No.	AWG-no.	No. cond.	Cross-sec. mm ²	Outer ø ca. mm	Weight ca. kg / km
2511x	32	7	0,03	0,7	0,38	2531x	32	7	0,03	1,0	0,42
2512x	30	7	0,06	0,8	0,59	2532x	30	7	0,06	1,1	0,65
2513x	28	7	0,09	0,9	0,93	2533x	28	7	0,09	1,1	1,0
2514x	26	7	0,14	1,0	1,47	2534x	26	7	0,14	1,2	1,56
2515x	26	19	0,14	1,0	1,58	2535x	26	19	0,14	1,2	1,68
2516x	24	7	0,21	1,1	2,31	2536x	24	7	0,21	1,4	2,4
2517x	24	19	0,24	1,1	2,52	2537x	24	19	0,24	1,4	2,65
2518x	22	7	0,35	1,3	3,68	2538x	22	7	0,35	1,5	3,85
2519x	22	19	0,38	1,3	3,99	2539x	22	19	0,38	1,5	4,2
2520x	20	7	0,57	1,5	6,0	2540x	20	7	0,57	1,7	6,3
2521x	20	19	0,57	1,5	6,4	2541x	20	19	0,57	1,7	6,9
2522x	18	7	0,9	1,7	9,45	2542x	18	7	0,9	2,0	10,65
2523x	18	19	0,95	1,7	10,2	2543x	18	19	0,95	2,0	13,65
2524x	16	19	1,23	2,0	12,9	2544x	16	19	1,23	2,3	21,38
2525x	14	19	1,94	2,4	20,3	2545x	14	19	1,94	2,7	33,95

Dimensions and specifications may be changed without prior notice.