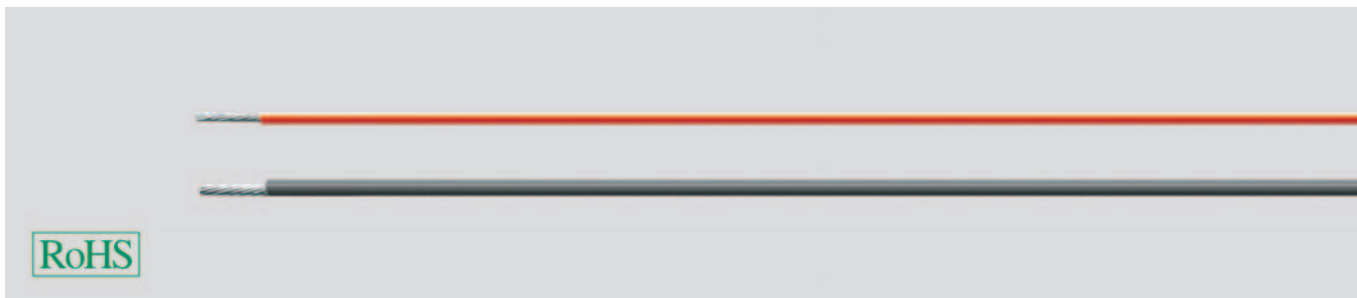


HELUFロン®-FEP-6Y fluorinated polymeric materials, single core, 600 V



Technical data

- Fluorinated polymeric insulation FEP (Fluorethylenpropylene)
- **Temperature range**
-100°C to +205°C
(up to +230°C for short time)
- **Nominal voltage** 600 V
- **Test voltage** 2500 V
- **Insulation resistance**
min. 2 GOhm x km
- **Minimum bending radius**
flexing 10x core Ø
fixed installation 4x core Ø
- **Radiation resistance**
up to 1x10⁶ cJ/kg (up to 1 Mrad)
- **Conductor temperature range**
bare copper +130°C
tinned copper +180°C
silver pl. copper +260°C

Cable structure

- Stranded copper wire, bare, tinned, silver
- Make-up fine wire stranded to DIN VDE 0295 cl.5, BS 6360 cl.5 and IEC 60228 cl.5
- Core insulation FEP-HELUFロン®

Properties

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

Tests

- self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)

Note

- 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 = 2-colour, 8 = other colours
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

HELUFロン® single cores 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 single cores are non-flammable and resistant to acids, alkalis, solvents, oil and petrol.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Copper wire, tinned

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
2551x	1 x 0,14	1,0	1,4	2,6	26
2552x	1 x 0,25	1,1	2,4	4,1	24
2553x	1 x 0,5	1,4	4,8	8,0	20
2554x	1 x 0,75	1,5	7,2	9,7	18
2555x	1 x 1	1,8	9,6	12,7	17
2556x	1 x 1,5	2,2	14,4	17,9	16
2557x	1 x 2,5	2,6	24,0	26,4	14
2558x	1 x 4	3,2	38,0	43,1	12
2559x	1 x 6	3,9	58,0	65,9	10
2560x	1 x 10	5,1	96,0	115,0	8
2561x	1 x 16	6,7	154,0	175,0	6

Copper wire, bare

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
2490x	1 x 0,14	1,0	1,35	2,6	26
2491x	1 x 0,25	1,1	2,4	4,1	24
2492x	1 x 0,5	1,4	4,8	8,0	20
2493x	1 x 0,75	1,5	7,2	9,7	18
2494x	1 x 1	1,8	9,6	12,7	17
2495x	1 x 1,5	2,2	14,4	17,9	16

Copper wire, bare

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
2496x	1 x 2,5	2,6	24,0	26,4	14
2497x	1 x 4	3,2	38,0	43,1	12
2498x	1 x 6	3,9	58,0	65,9	10
2499x	1 x 10	5,1	96,0	115,0	8
2037x	1 x 16	6,7	154,0	175,0	6

copper wires, silvered

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	AG weight kg / km	Weight approx. kg / km	AWG-No.
2026x	1 x 0,14	1,0	1,35	0,09	2,6	26
2027x	1 x 0,25	1,1	2,4	0,13	4,1	24
2028x	1 x 0,5	1,4	4,8	0,17	8,0	20
2029x	1 x 0,75	1,5	7,2	0,20	9,7	18
2030x	1 x 1	1,8	9,6	0,26	12,7	17
2031x	1 x 1,5	2,2	14,4	0,35	17,9	16
2032x	1 x 2,5	2,6	24,0	0,70	26,4	14
2033x	1 x 4	3,2	38,0	1,20	43,1	12
2034x	1 x 6	3,9	58,0	1,70	65,9	10
2035x	1 x 10	5,1	96,0	2,80	115,0	8
2036x	1 x 16	6,7	154,0	4,80	175,0	6

Dimensions and specifications may be changed without prior notice. (RK01)