

**HELUFLO<sup>®</sup>-FEP-6Y** multi core, fluorinated polymeric materials,**-100°C up to +205°C****Technical data**

- Fluorinated polymeric insulation FEP (Fluorethylenpropylene)
- **Temperature range**  
-100°C to +205°C  
(for short time +230°C)
- **Conductor temperature range**  
bare copper +130°C  
tinned copper +180°C  
silver pl. copper +200°C
- **Nominal voltage** 600 V
- **Test voltage** 2500 V
- **Insulation resistance**  
min. 2 GOhm x km
- **Minimum bending radius**  
flexing 15x cable Ø  
fixed installation 4x cable Ø
- **Radiation resistance**  
up to 1x10<sup>6</sup> cJ/kg (up to 1 Mrad)

**Cable structure**

- Copper-conductor, bare, tinned, silver to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of FEP-HELUFLO<sup>®</sup>
- Core identification to DIN VDE 0293-308  
- up to 0,25 mm<sup>2</sup> cores coloured  
- from 0,5 mm<sup>2</sup> black cores with continuous white numbering
- GN-YE conductor, 3 cores and above
- Cores stranded in layers with optimal lay-length
- Outer sheath of FEP-HELUFLO<sup>®</sup>
- Sheath colour black (RAL 9005)

**Properties**

- Higher insulation resistance
- Low dielectric loss
- Not flammable
- 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/cm<sup>2</sup> 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**

- G = with green-yellow conductor
- x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

**Application**

This 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.

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

**copper wire, tinned**

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
24547	2 x 0,25	2,7	5,0	17,0	24
24548	3 G 0,25	2,9	7,5	22,0	24
24549	4 G 0,25	3,2	10,0	27,0	24
24550	5 G 0,25	3,5	12,5	34,0	24
24551	7 G 0,25	3,9	17,5	46,0	24
24552	2 x 0,5	3,3	9,8	21,0	20
24553	3 G 0,5	3,5	14,7	32,0	20
24554	4 G 0,5	3,9	19,6	44,0	20
24555	5 G 0,5	4,3	24,5	55,0	20
24556	7 G 0,5	4,8	34,3	70,0	20
24557	2 x 0,75	3,6	14,4	31,0	19
24558	3 G 0,75	3,9	21,6	46,0	19
24559	4 G 0,75	4,3	29,0	58,0	19
24560	5 G 0,75	4,7	36,0	69,0	19
24561	7 G 0,75	4,8	50,0	92,0	19
24562	2 x 1	4,1	19,0	41,0	18
24563	3 G 1	4,4	29,0	55,0	18
24564	4 G 1	4,9	38,0	71,0	18
24565	5 G 1	5,5	48,0	88,0	18

**copper wire, tinned**

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
24566	7 G 1	6,0	67,0	113,0	18
24273	12 G 1	8,0	115,2	220,0	18
24274	18 G 1	9,5	173,0	321,0	18
24275	25 G 1	11,2	240,0	458,0	18
24501	2 x 1,5	4,9	29,0	45,0	16
24502	3 G 1,5	5,3	43,0	70,0	16
24503	4 G 1,5	5,8	58,0	98,0	16
24504	5 G 1,5	6,5	72,0	117,0	16
24505	7 G 1,5	7,2	101,0	184,0	16
24276	12 G 1,5	10,2	173,0	326,0	16
24277	18 G 1,5	12,3	260,0	504,0	16
24278	25 G 1,5	14,0	360,0	682,0	16
24279	3 G 2,5	6,4	72,0	121,0	14
24280	4 G 2,5	7,0	96,0	182,0	14
24281	5 G 2,5	7,9	120,0	240,0	14
24282	7 G 2,5	8,7	168,0	316,0	14
24283	3 G 4	7,5	115,0	212,0	12
24284	4 G 4	8,3	154,0	304,0	12
24285	5 G 4	9,2	192,0	386,0	12

Continuation ▶

**HELUFLO<sup>®</sup>-FEP-6Y** multi core, fluorinated polymeric materials,**-100°C up to +205°C****Copper wire, bare**

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
25914	2 x 0,25	2,7	5,0	17,0	24
25915	3 G 0,25	2,9	7,5	22,0	24
25916	4 G 0,25	3,2	10,0	27,0	24
25917	5 G 0,25	3,5	12,5	34,0	24
25918	7 G 0,25	3,9	17,5	46,0	24
25919	2 x 0,5	3,3	9,8	21,0	20
25920	3 G 0,5	3,5	14,7	32,0	20
25921	4 G 0,5	3,9	19,6	44,0	20
25922	5 G 0,5	4,3	24,5	55,0	20
25923	7 G 0,5	4,8	34,3	70,0	20
25924	2 x 0,75	3,6	14,4	31,0	19
25925	3 G 0,75	3,9	21,6	46,0	19
25926	4 G 0,75	4,3	29,0	58,0	19
25927	5 G 0,75	4,7	36,0	69,0	19
25928	7 G 0,75	5,4	50,0	92,0	19
25929	2 x 1	4,1	19,0	41,0	18
25930	3 G 1	4,4	29,0	55,0	18
25931	4 G 1	4,9	38,0	71,0	18
25932	5 G 1	5,5	48,0	88,0	18
25933	7 G 1	6,0	67,0	113,0	18
25934	12 G 1	8,0	115,2	220,0	18
25935	18 G 1	9,5	173,0	321,0	18
25936	25 G 1	11,2	240,0	458,0	18
25937	2 x 1,5	4,9	29,0	45,0	16
25938	3 G 1,5	5,3	43,0	70,0	16
25939	4 G 1,5	5,8	58,0	98,0	16
25940	5 G 1,5	6,5	72,0	117,0	16
25941	7 G 1,5	7,2	101,0	184,0	16
25942	12 G 1,5	10,2	173,0	326,0	16
25943	18 G 1,5	12,3	260,0	504,0	16
25944	25 G 1,5	14,0	360,0	682,0	16
25945	3 G 2,5	6,4	72,0	121,0	14
25946	4 G 2,5	7,0	96,0	182,0	14
25947	5 G 2,5	7,9	120,0	240,0	14
25948	7 G 2,5	8,7	168,0	316,0	14
25949	3 G 4	7,5	115,0	212,0	12
25950	4 G 4	8,3	154,0	304,0	12
25951	5 G 4	9,2	192,0	386,0	12

**copper wire, silvered**

Part no.	No. cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	AG weight kg / km	Weight approx. kg / km	AWG-No.
25952	2 x 0,25	2,7	5,0	0,26	17,0	24
25953	3 G 0,25	2,9	7,5	0,39	22,0	24
25954	4 G 0,25	3,2	10,0	0,52	27,0	24
25955	5 G 0,25	3,5	12,5	0,65	34,0	24
25956	7 G 0,25	3,9	17,5	0,91	46,0	24
25957	2 x 0,5	3,3	9,8	0,34	21,0	20
25958	3 G 0,5	3,5	14,7	0,51	32,0	20
25959	4 G 0,5	3,9	19,6	0,68	44,0	20
25960	5 G 0,5	4,3	24,5	0,85	55,0	20
25961	7 G 0,5	4,8	34,3	1,19	70,0	20
25962	2 x 0,75	3,6	14,4	0,40	31,0	19
25963	3 G 0,75	3,9	21,6	0,60	46,0	19
25964	4 G 0,75	4,3	29,0	0,80	58,0	19
25965	5 G 0,75	4,7	36,0	1,00	69,0	19
25966	7 G 0,75	5,4	50,0	1,40	92,0	19
25967	2 x 1	4,1	19,0	0,52	41,0	18
25968	3 G 1	4,4	29,0	0,78	55,0	18
25969	4 G 1	4,9	38,0	1,04	71,0	18
25970	5 G 1	5,5	48,0	1,30	88,0	18
25971	7 G 1	6,0	67,0	1,82	113,0	18
25972	12 G 1	8,0	115,2	3,12	220,0	18
25973	18 G 1	9,5	173,0	4,68	321,0	18
25974	25 G 1	11,2	240,0	6,50	458,0	18
25975	2 x 1,5	4,9	29,0	0,70	45,0	16
25976	3 G 1,5	5,3	43,0	1,05	70,0	16
25977	4 G 1,5	5,8	58,0	1,40	98,0	16
25978	5 G 1,5	6,5	72,0	1,75	117,0	16
25979	7 G 1,5	7,2	101,0	2,45	184,0	16
25980	12 G 1,5	10,2	173,0	4,20	326,0	16
25981	18 G 1,5	12,3	260,0	6,30	504,0	16
25982	25 G 1,5	14,0	360,0	8,75	682,0	16
25983	3 G 2,5	6,4	72,0	2,10	121,0	14
25984	4 G 2,5	7,0	96,0	2,80	182,0	14
25985	5 G 2,5	7,9	120,0	3,50	240,0	14
25986	7 G 2,5	8,7	168,0	4,90	316,0	14
25987	3 G 4	7,5	115,0	3,60	212,0	12
25989	4 G 4	8,3	154,0	4,80	304,0	12
25990	5 G 4	9,2	192,0	6,00	386,0	12

Dimensions and specifications may be changed without prior notice. (RE01)



Suitable accessories can be found in Chapter X.

- Cable protection tube - HTP