

# JZ-604-FCY TC TRAY CABLE

PVC power cable, exposed run, screened, NFPA 79 Edition 2012, 90°C, 600 V, EMC-preferred type, meter marking



HELUKABEL JZ-604 FCY TC-ER UL 1277 18AWG / 1 OMM 7C 600V MTW 90C DRY 75C WET SUN RES  
DIR BUR FT4 OR AWN STYLE 2587 CSA AWM III A/B 90C FT4 600V LL113926 CE



## Technical data

- PVC power cable, screened to UL-Std.1277 TRAY CABLE
- **Multinorm**  
AWM-Style 2587 to UL-Std.758 and CSA C22.2 No 210 I/II A/B 90°C 600 V
- **Temperature range**  
dry environment  
flexing -5°C to +90°C  
fixed installation -25°C to +90°C  
wet environment  
flexing -5°C to +75°C  
fixed installation -25°C to +75°C
- **Nominal voltage** UL 600 V
- **Test voltage** 3000 V
- **Breakdown voltage** min. 6000 V
- **Insulation resistance**  
min. 20 MOhm x km
- **Minimum bending radius**  
10x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)
- **Coupling resistance**  
max. 250 Ohm/km

## Cable structure

- Bare copper, fine wire conductors, acc. to DIN VDE 0295 cl.5, BS 6360 cl.5 and IEC 60228 cl.5
- Core insulation of special PVC class 12 B to tab.50.155 acc. to UL-Std.1581, type TFF acc. to UL-Std. 62 (AWG 20-AWG 16), type THHW acc. to UL-Std.83 (AWG 14)
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Special separation foil
- Tinned copper braided screening, approx. 85% coverage
- Outer sheath of special PVC acc. to UL-Std.1277 tab.11.2
- Sheath colour black (RAL 9005)
- with meter marking

## Properties

- self-extinguishing and flame retardant acc. to CSA FT4
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers
- uv-resistant

## 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>.
- unscreened analogue type:  
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## Application

USA NFPA 79 edition 2012 conformant flexible power cables up to 600 V, for all machinery in tool and plant construction, suitable for installation in dry, humid and damp environments, in the open and in pipes. For underground installation and for open, unprotected installation from the cable rack to machines and industrial plants.

**EMC** = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

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

Part no.	No.cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
69750	2 x 1	18	8,6	50,0	151,0
69751	3 G 1	18	9,0	60,0	164,0
69752	4 G 1	18	9,7	71,0	200,0
69753	5 G 1	18	10,5	88,0	229,0
69754	7 G 1	18	12,2	111,0	306,0
69755	9 G 1	18	13,2	139,0	371,0
69756	10 G 1	18	15,0	150,0	411,0
69757	12 G 1	18	15,4	184,0	460,0
69758	18 G 1	18	17,8	260,0	624,0
69759	25 G 1	18	21,9	349,0	845,0
69760	34 G 1	18	24,5	486,0	984,0
69761	50 G 1	18	26,2	625,0	1096,0
69762	2 x 1,5	16	9,0	63,0	161,0
69763	3 G 1,5	16	9,4	80,0	181,0
69764	4 G 1,5	16	10,2	97,0	240,0
69765	5 G 1,5	16	11,1	119,0	274,0
69766	7 G 1,5	16	12,9	147,0	367,0
69767	8 G 1,5	16	14,5	170,0	431,0
69768	9 G 1,5	16	14,5	182,0	437,0
69769	10 G 1,5	16	15,8	193,0	511,0
69770	12 G 1,5	16	16,2	267,0	598,0
69771	16 G 1,5	16	17,9	315,0	630,0
69772	18 G 1,5	16	18,9	374,0	787,0
69773	25 G 1,5	16	22,3	526,0	1240,0
69774	34 G 1,5	16	24,9	629,0	1401,0
69775	41 G 1,5	16	26,7	801,0	2671,0
69776	50 G 1,5	16	33,7	885,0	3614,0
69777	61 G 1,5	16	36,0	1100,0	4089,0
69778	2 x 2,5	14	10,0	96,0	269,0
69779	3 G 2,5	14	10,5	144,0	294,0

Part no.	No.cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
69780	4 G 2,5	14	11,4	148,0	341,0
69781	5 G 2,5	14	12,4	181,0	420,0
69782	7 G 2,5	14	15,3	255,0	551,0
69783	8 G 2,5	14	16,5	285,0	583,0
69784	9 G 2,5	14	16,5	309,0	593,0
69785	10 G 2,5	14	17,9	340,0	631,0
69786	12 G 2,5	14	18,4	441,0	847,0
69787	18 G 2,5	14	22,4	570,0	1336,0
69788	25 G 2,5	14	26,5	738,0	1921,0
69789	3 G 4	12	11,6	174,0	381,0
69790	4 G 4	12	12,6	230,0	504,0
69791	5 G 4	12	14,5	273,0	692,0
69792	7 G 4	12	17,1	316,0	908,0
69793	9 G 4	12	18,4	402,0	1104,0
69794	12 G 4	12	20,5	507,0	1497,0
69795	18 G 4	12	25,0	751,0	2104,0
69796	3 G 6	10	13,8	240,0	623,0
69797	4 G 6	10	15,1	305,0	729,0
69798	5 G 6	10	16,4	439,0	1082,0
69799	7 G 6	10	18,0	505,0	1414,0
69800	3 G 10	8	17,6	350,0	1108,0
69801	4 G 10	8	19,3	535,0	1324,0
69802	5 G 10	8	22,1	592,0	1596,0
69803	7 G 10	8	24,2	810,0	2186,0

Dimensions and specifications may be changed without prior notice. (RN01)