

# JZ-604-FCY TC TRAY CABLE

PVC power cable, screened, open installation TC-ER, NFPA 79, 90°C, 600 V, meter marking, EMC-preferred type



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

## Technical data

- PVC power cable, screened acc. to UL Std.1277 TRAY CABLE
- Multinorm**  
also conform to the following standards:  
AWM-Style 2587 to UL Std.758 and CSA-Std. C22.2 No.210 I/II A/B
- 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
- Coupling resistance**  
max. 250 Ohm/km
- Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 4x cable Ø

## Cable structure

- Bare copper conductor, fine wire acc. to DIN VDE 0295 cl.5 / IEC 60228 cl.5
- Core insulation of PVC class 12 B acc. to tab. 50.155 UL Std.1581, type TFF to UL Std.62 (AWG 20-AWG 16) type THHW 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
- Separation foil
- Tinned copper braided screen, approx. coverage 85%
- Outer sheath of PVC acc. to UL Std.1277 tab.11.2
- Sheath colour: black (RAL 9005)
- With meter marking

## Properties

- UV-resistant
- The materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

## Tests

- Self-extinguishing and flame retardant acc. to CSA FT4
- UL OIL RES I OIL RES II
- Class 1 Div. 2 per NEC Art. 336, 392, 501

## Note

- G = with GN-YE conductor  
x = without GN-YE conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross section is in mm<sup>2</sup>.
- Unscreened analogue type:  
**JZ-604 TC TRAY CABLE**

## Application

USA NFPA 79 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** = Product conforms with Low-Voltage Directive 2014/35/EU.

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	103,0
69751	3 G 1	18	9,0	60,0	119,0
69752	4 G 1	18	9,7	71,0	139,0
69753	5 G 1	18	10,5	88,0	165,0
69754	7 G 1	18	12,2	111,0	216,0
69755	9 G 1	18	14,2	139,0	285,0
69756	10 G 1	18	15,0	150,0	311,0
69757	12 G 1	18	15,4	184,0	349,0
69758	18 G 1	18	17,8	260,0	472,0
69759	25 G 1	18	21,9	349,0	665,0
69760	34 G 1	18	24,3	486,0	886,0
69761	50 G 1	18	28,4	625,0	1164,0
69762	2 x 1,5	16	9,0	63,0	115,0
69763	3 G 1,5	16	9,4	80,0	140,0
69764	4 G 1,5	16	10,2	97,0	164,0
69765	5 G 1,5	16	11,1	119,0	195,0
69766	7 G 1,5	16	12,9	147,0	260,0
69767	8 G 1,5	16	14,0	170,0	297,0
69768	9 G 1,5	16	15,2	182,0	351,0
69769	10 G 1,5	16	15,5	193,0	360,0
69770	12 G 1,5	16	16,2	267,0	408,0
69771	16 G 1,5	16	18,1	315,0	526,0
69772	18 G 1,5	16	18,9	374,0	571,0
69773	25 G 1,5	16	23,8	526,0	862,0
69774	34 G 1,5	16	25,9	629,0	1050,0
69775	41 G 1,5	16	27,6	801,0	1215,0
69776	50 G 1,5	16	30,2	885,0	1418,0

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
69777	61 G 1,5	16	34,0	1100,0	1815,0
69778	2 x 2,5	14	10,0	96,0	148,0
69779	3 G 2,5	14	10,5	144,0	180,0
69780	4 G 2,5	14	11,4	148,0	220,0
69781	5 G 2,5	14	12,4	181,0	259,0
69782	7 G 2,5	14	15,3	255,0	379,0
69783	8 G 2,5	14	16,3	285,0	432,0
69784	9 G 2,5	14	17,6	309,0	493,0
69785	10 G 2,5	14	17,9	340,0	503,0
69786	12 G 2,5	14	18,4	441,0	560,0
69787	18 G 2,5	14	22,0	570,0	839,0
69788	25 G 2,5	14	26,6	738,0	1157,0
69789	3 G 4	12	11,6	174,0	233,0
69790	4 G 4	12	12,6	230,0	290,0
69791	5 G 4	12	14,5	273,0	362,0
69792	7 G 4	12	17,1	316,0	501,0
69793	9 G 4	12	18,4	402,0	625,0
69794	12 G 4	12	20,5	507,0	753,0
69795	18 G 4	12	24,9	751,0	1161,0
69796	3 G 6	10	13,8	240,0	327,0
69797	4 G 6	10	15,1	305,0	414,0
69798	5 G 6	10	16,4	439,0	482,0
69799	7 G 6	10	19,6	505,0	684,0
69800	3 G 10	8	17,9	350,0	549,0
69801	4 G 10	8	19,6	535,0	693,0
69802	5 G 10	8	22,5	592,0	872,0
69803	7 G 10	8	24,4	810,0	1116,0

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