

# JZ 604-FCY TC TRAY CABLE

PVC power cable, screened, 90°C,  
600V, EMC-preferred type



HELUKABEL JZ-604 FCY TC (UL) 1277 #16AWG/1.5QMM 4 C 600V 90°C DRY 75°C WET SUN RES OIL RES I DIR BUR  
OPEN WIRING c(UL) TC FT4 OR c(UL) C/C FT4 OR 9AWM STYLE 2587 CSA AWM VII A/B 90°C FT4 600V LL 113925 C €



## Technical data

- PVC power cable, screened to UL-standard 1277 TRAY CABLE
- **Multinorm**  
(UL) MTW to UL-Std. 1063  
AWM-Style 2587 to UL-Std. 758 (cUL) and  
CSA type TC FT4 to C22.2 no 230, CSA C22.2  
No 210.2 I/II A/B 90°C 600 V FT4
- **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** to UL 600 V
- **Test voltage** 3000 V
- **Breakdown voltage** min. 6000 V
- **Insulation resistance**  
min. 20 MΩm 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 Ωm/km

## Cable construction

- Bare copper, fine wire conductors, according to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Spezial PVC core insulation class 12 B to table 50.155 UL-standard 1581, type TFF to UL-Std. 62 table 6.2 (AWG 20-AWG 16), type THHW to UL-Std. 83 table 5.2 (≥AWG 14)
- Black cores with continuous white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special separation foil
- Tinned copper braided screening, approx. 85% coverage
- Special PVC outer sheath, to UL-Std. 1277 table 11.2
- Sheath colour black (RAL 9005)

## Properties

- Material self-extinguishing and flame retardant to UL-Standard 1277
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Note

- G = with green-yellow earth core;  
x = without green-yellow earth core (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.
- To optimise the EMC features we recommend a large round contact of the cooper braiding on both ends.

## Application

UL-approved, flexible high current cables for use up to 600 V, for all machines, tools and installation work. Suitable for use in dry, damp and wet areas, outside, in cable ducts, open cable trays. Also in pipes, in the ground and for open installation in machinery and industrial areas.

**EMC** = Electromagnetic compatibility

**CE** = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
69750	2 x 1	18	8,6	51,2	151,0
69751	3 G 1	18	9,0	76,4	164,0
69752	4 G 1	18	9,7	102,9	200,0
69753	5 G 1	18	10,5	126,4	229,0
69754	7 G 1	18	12,2	204,8	306,0
69755	9 G 1	18	13,2	269,8	371,0
69756	10 G 1	18	15,0	304,7	411,0
69757	12 G 1	18	15,4	331,1	460,0
69758	18 G 1	18	17,8	494,7	624,0
69759	25 G 1	18	21,1	642,1	845,0
69760	34 G 1	18	24,5	807,6	984,0
69761	50 G 1	18	26,2	892,1	1096,0
69762	2 x 1,5	16	9,0	78,3	161,0
69763	3 G 1,5	16	9,4	114,2	181,0
69764	4 G 1,5	16	10,2	152,1	240,0
69765	5 G 1,5	16	11,1	189,2	274,0
69766	7 G 1,5	16	12,9	279,4	367,0
69767	8 G 1,5	16	14,5	308,6	431,0
69768	9 G 1,5	16	14,5	326,8	437,0
69769	10 G 1,5	16	15,8	401,6	511,0
69770	12 G 1,5	16	16,2	491,7	598,0
69771	16 G 1,5	16	17,9	526,1	630,0
69772	18 G 1,5	16	18,9	749,1	787,0
69773	25 G 1,5	16	22,3	1011,4	1240,0
69774	34 G 1,5	16	24,9	1214,7	1401,0
69775	41 G 1,5	16	26,7	2060,6	2671,0
69776	50 G 1,5	16	33,7	3040,8	3614,0
69777	61 G 1,5	16	36,0	3416,1	4089,0

Part No.	No. cores x cross-sec. mm <sup>2</sup>	AWG-no.	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
69778	2 x 2,5	14	10,0	128,4	269,0
69779	3 G 2,5	14	10,5	189,5	294,0
69780	4 G 2,5	14	11,4	250,1	341,0
69781	5 G 2,5	14	12,4	314,2	420,0
69782	7 G 2,5	14	15,3	464,3	551,0
69783	8 G 2,5	14	16,5	490,9	583,0
69784	9 G 2,5	14	16,5	498,6	593,0
69785	10 G 2,5	14	17,9	511,6	631,0
69786	12 G 2,5	14	18,4	764,1	847,0
69787	18 G 2,5	14	22,4	1120,4	1336,0
69788	25 G 2,5	14	26,5	1714,0	1921,0
69789	3 G 4	12	11,6	304,2	381,0
69790	4 G 4	12	12,6	402,7	504,0
69791	5 G 4	12	14,5	514,2	692,0
69792	7 G 4	12	17,1	721,2	908,0
69793	9 G 4	12	18,4	849,3	1104,0
69794	12 G 4	12	20,5	1211,8	1497,0
69795	18 G 4	12	25,0	1714,9	2104,0
69796	3 G 6	10	13,8	457,2	623,0
69797	4 G 6	10	15,1	608,6	729,0
69798	5 G 6	10	16,4	763,9	1082,0
69799	7 G 6	10	18,0	1002,8	1414,0
69800	3 G 10	8	17,6	796,7	1108,0
69801	4 G 10	8	19,3	1029,6	1324,0
69802	5 G 10	8	22,1	1273,8	1596,0
69803	7 G 10	8	24,2	1696,2	2186,0

Dimensions and specifications may be changed without prior notice.