

JZ-604-YCY TC TRAY CABLE

TC-ER (exposed run), NFPA 79, +90°C, 600 V, EMC-preferred type



HELUKABEL® JZ-604 YCY TC-ER UL 1277 6AWG/16QMM 4C 600V MTW 90°C DRY 75°C WET SUN RES DIR BUR OIL RES I OIL RES II FT4 OR AWM STYLE 2587 CSA AWM III A/B 90°C FT4 600V LL113926 CE

TECHNICAL DATA

PVC connection cable acc. to UL-Std. 1277 (TC), UL-Std. 758 (AWM) Style 2587, CSA-Std. C22.2 No. 210 - AWM I/II A/B

Temperature range	flexible -5°C to +90°C fixed -40°C to +90°C
Nominal voltage	UL (AWM) AC 600 V
Test voltage core/core	3000 V
Breakdown voltage	6000 V
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 10x Outer-Ø fixed 4x Outer-Ø

CABLE STRUCTURE

- Copper wire bare, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5
- Core insulation: PVC acc. to UL-Std. 1277 (TC) Sec. 9
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE (JZ)
- Cores stranded with optimal lay lengths
- Inner sheath: PVC acc. to UL-Std. 1581
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: PVC acc. to UL-Std. 1581 Tab. 50.182
- Sheath colour: black (RAL 9005)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation (SUN RES)
- for outdoor use
- direct burial (DIR BUR)
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- flame-retardant acc. to CSA FT4
- oil-resistant acc. to UL Oil Res I, UL Oil Res II
- 90°C DRY/ 75°C WET acc. to UL Std. 1277 No. 9
- Cold Bend Test acc. to UL Std. 1277 No. 17
- Impact Test (-ER) acc. to UL Std. 1277 No. 23
- Crushing Test (-ER) acc. to UL Std. 1277 No. 24
- certifications and approvals: EAC for Class 1 Div. 2 explosive environments acc. to NEC Art. 501

APPLICATION

NFPA 79 compliant, flexible connection cable (up to 600 V) for machinery in tool and plant construction; suitable for installation in dry, damp and wet environments as well as outdoors. For underground installation and for open, unprotected installation from the cable rack to machines and industrial plants. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and allround large contact area of the copper braiding.

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
69804	3 G 16	6	25.2	653.0	1060.0
69805	4 G 16	6	27.8	807.0	1572.0
69806	5 G 16	6	31.2	940.0	2002.0
69807	7 G 16	6	34.5	1345.0	2604.0
69808	3 G 25	4	29.0	920.0	1955.0
69809	4 G 25	4	32.4	1169.0	2218.0
69810	5 G 25	4	36.4	1420.0	2757.0
69811	7 G 25	4	40.3	1921.0	3523.0
69812	3 G 35	2	32.4	1250.0	2289.0
69813	4 G 35	2	36.2	1680.0	2926.0
69814	5 G 35	2	40.5	2020.0	3545.0
69815	3 G 50	1	40.4	1887.0	3379.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
69816	4 G 50	1	45.5	2370.0	4439.0
69817	5 G 50	1	50.0	2880.0	5312.0
69818	3 G 70	2/0	46.7	2516.0	4557.0
69819	4 G 70	2/0	51.1	3257.0	5632.0
69820	5 G 70	2/0	56.0	4032.0	6681.0
69821	3 G 95	3/0	50.1	3086.0	5612.0
69822	4 G 95	3/0	55.0	4060.0	6820.0
69823	5 G 95	3/0	60.5	5244.0	8172.0
69824	3 G 120	4/0	54.0	4176.0	6711.0
69825	4 G 120	4/0	59.5	5231.0	8256.0
69826	5 G 120	4/0	64.5	6624.0	10233.0