

PAAR-CY-OZ

coded with digits, EMC-preferred type



HELUKABEL® PAAR-CY-OZ 5x2x1 QMM / 17026 300/500 V CE

TECHNICAL DATA

PVC data cable in alignment with DIN VDE 0812

Temperature range	flexible -5°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U ₀ /U 300/500 V
Test voltage core/core	1200 V
Test voltage core/screen	800 V
Breakdown voltage	2400 V
Mutual capacitance core/core	at 800 Hz, approx. 150 pF/m
Mutual capacitance core/screen	at 800 Hz, approx. 270 pF/m
Inductance	approx. 0.67 mH/km
Coupling resistance	at 30 MHz, approx. 250 Ohm/km
Minimum bending radius	flexible 10x Outer-Ø fixed 5x 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 DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type T12)
- Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits
- x = without protective conductor
- Cores stranded in pairs with optimal lay lengths, Pairs stranded in layers with optimal lay lengths
- Foil wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Outer sheath: PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
17023	2 x 2 x 1	18	9.5	82.0	135.0
17024	3 x 2 x 1	18	10.0	103.0	160.0
17025	4 x 2 x 1	18	11.0	132.0	197.0
17026	5 x 2 x 1	18	12.3	161.0	253.0
17027	6 x 2 x 1	18	13.4	188.0	295.0
17028	8 x 2 x 1	18	14.7	240.0	410.0
17029	10 x 2 x 1	18	16.4	282.0	518.0
17030	12 x 2 x 1	18	18.2	324.0	601.0
17031	16 x 2 x 1	18	19.0	412.0	990.0
17032	20 x 2 x 1	18	19.8	505.0	1400.0
17033	25 x 2 x 1	18	23.5	610.0	1600.0

- Sheath colour: grey (RAL 7032)
- Length marking: in metres

PROPERTIES

- largely resistant to: oil, for details, see "Technical Information"
- 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 DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

APPLICATION

Suitable for flexible applications with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, however, not suitable for outdoor use. Used as a connection cable for signal, measurement and control technology, as well as in electronic engineering. Also applicable in pulse and data technology. Special areas of application include locations with high electromagnetic radiation, e.g. through adjacent lines. EMC= Electromagnetic Compatibility; in order to optimise EMC properties, we recommend a double-sided and all-round 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. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
17034	2 x 2 x 1.5	16	11.3	112.0	168.0
17035	3 x 2 x 1.5	16	12.2	139.0	221.0
17036	4 x 2 x 1.5	16	13.5	176.0	269.0
17037	5 x 2 x 1.5	16	14.5	212.0	314.0
17038	6 x 2 x 1.5	16	17.2	255.0	550.0
17039	8 x 2 x 1.5	16	17.5	322.0	650.0
17040	10 x 2 x 1.5	16	20.1	380.0	900.0
17041	12 x 2 x 1.5	16	21.8	442.0	950.0
17042	16 x 2 x 1.5	16	25.0	572.0	1100.0
17043	20 x 2 x 1.5	16	27.0	705.0	1700.0
17044	25 x 2 x 1.5	16	29.5	862.0	1900.0