

HELUCONTROL® PUR-ORANGE-JZ / HELUCONTROL® PUR-ORANGE-OZ

with inner sheath



HELUKABEL® HELUCONTROL® PUR-ORANGE-JZ 4G2,5 QMM / 22027 300/500 V CE

TECHNICAL DATA

PUR control and connection cable in alignment with DIN VDE 0285-525-1 / DIN EN 50525-1

Temperature range	flexible -15°C to +80°C fixed -40°C to +80°C
Nominal voltage	AC U ₀ /U 300/500 V
Test voltage core/core	3000 V
Breakdown voltage	6000 V
Minimum bending radius	flexible 7.5x 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 in alignment with 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
- Protective conductor: starting with 3 cores, G = with protective conductor GN-YE (JZ), x = without protective conductor (OZ)
- Cores stranded with optimal lay lengths
- Inner sheath: PVC
- Outer sheath: Special grade of full polyurethane acc. to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2 (compound type TMPU)
- Sheath colour: orange (RAL 2003)
- Length marking: in metres

PROPERTIES

- resistant to: oil, UV radiation, ozone, oxygen, weathering effects, hydrolysis, microbes, coolants, hydraulic fluids, acids, alkalis, greases, seawater and wastewater
- highly abrasion-resistant, notch-resistant, tear-resistant, cut-resistant, wear-resistant
- for outdoor use
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers

TESTS

- oil-resistant acc. to DIN VDE 0473-811-404 / DIN EN 60811-404 / IEC 60811-404
- UV-resistant acc. to DIN EN ISO 4892-2
- weather-resistant acc. to DIN EN ISO 4892-2

APPLICATION

Robust control and connection cable characterised by high oil resistance, abrasion resistance and notch toughness. Areas of application are machine and tool construction, shipyards, rolling mills and steelworks, construction sites, oil drilling and coal mining. Also often used in plants as a hand tool cable or extension cable.

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.
22001	2 x 0.75	19	6.9	14.4	50.0
22002	3 G 0.75	19	7.2	21.6	70.0
22003	4 G 0.75	19	7.9	28.8	80.0
22004	5 G 0.75	19	8.5	36.0	100.0
22005	7 G 0.75	19	9.8	50.0	140.0
22006	2 x 1	18	7.2	19.2	63.0
22007	3 G 1	18	7.7	29.0	76.0
22008	4 G 1	18	8.3	38.0	95.0
22009	5 G 1	18	9.1	48.0	120.0
22010	7 G 1	18	10.5	67.0	170.0
22015	2 x 1.5	16	8.0	29.0	80.0
22016	3 G 1.5	16	8.4	43.0	105.0
22017	4 G 1.5	16	9.2	58.0	135.0
22018	5 G 1.5	16	9.9	72.0	158.0
22019	7 G 1.5	16	11.9	101.0	221.0
22025	2 x 2.5	14	9.4	48.0	150.0

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
22026	3 G 2.5	14	9.9	72.0	173.0
22027	4 G 2.5	14	10.9	96.0	203.0
22028	5 G 2.5	14	12.1	120.0	253.0
22029	7 G 2.5	14	14.1	168.0	356.0
22033	3 G 4	12	11.8	115.0	250.0
22034	4 G 4	12	12.7	154.0	300.0
22035	5 G 4	12	13.9	192.0	370.0
22036	7 G 4	12	16.5	269.0	500.0
22037	4 G 6	10	15.0	230.0	480.0
22038	5 G 6	10	16.5	288.0	583.0
22039	7 G 6	10	19.7	403.0	780.0
22040	4 G 10	8	18.6	384.0	740.0
22041	5 G 10	8	20.5	480.0	920.0
22042	4 G 16	6	21.4	614.0	1100.0
22043	5 G 16	6	23.8	768.0	1400.0