F-C-PURö-JZ / F-C-PURö-OZ

EMC-preferred type, oil resistant



TECHNICAL DATA

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

Temperature range	flexible -20°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
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: oil-resistant PVC in alignment with DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type TI2), with improved gliding behaviour
- 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, in the outer layer, x = without protective conductor (OZ)
- Cores stranded in layers with optimal lay lengths
- Foil wrapping
- Screen: braided screen of tinned copper wires, approx. coverage 85%
- Fleece wrapping
- 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: grey (RAL 7001)
- 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, low adhesion
- 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
- certifications and approvals: EAC

APPLICATION

Connection and control cable with oil-resistant PVC core insulation. Due to its resistance to mineral oils, notably against coolant emulsions, it is suited for use in particularly critical locations in machine, tool and plant construction, rolling mills and steelworks. Suitable for flexible applications involving medium mechanical stress with free movement, without tensile stress and without forced motion control in dry, damp and wet rooms, as well as outdoors. 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 factor per km	Weight kg/km, approx.
21200	2 x 0.5	20	5.6	35.0	44.0
21201	3 G 0.5	20	5.9	42.0	56.0
21202	4 G 0.5	20	6.4	47.0	60.0
21203	5 G 0.5	20	6.9	56.0	75.0
21205	7 G 0.5	20	7.6	69.0	97.0
21207	10 G 0.5	20	9.5	94.0	133.0
21208	12 G 0.5	20	9.8	108.0	158.0
21209	14 G 0.5	20	10.4	116.0	190.0
21211	18 G 0.5	20	11.5	145.0	218.0
21213	21 G 0.5	20	12.2	188.0	252.0
21215	25 G 0.5	20	13.5	240.0	315.0
21217	30 G 0.5	20	14.4	295.0	362.0
21220	36 G 0.5	20	15.6	318.0	447.0
21221	40 G 0.5	20	17.0	343.0	475.0
21224	50 G 0.5	20	18.4	406.0	572.0
21227	2 x 0.75	19	6.1	40.0	60.0
21228	3 G 0.75	19	6.4	52.0	67.0
21229	4 G 0.75	19	7.0	60.0	76.0
21230	5 G 0.75	19	7.6	71.0	92.0
21232	7 G 0.75	19	8.2	91.0	131.0
21234	10 G 0.75	19	10.3	137.0	180.0
21235	12 G 0.75	19	10.6	142.0	204.0
21236	14 G 0.75	19	11.5	180.0	226.0
21238	18 G 0.75	19	12.7	212.0	290.0
21240	21 G 0.75	19	13.9	246.0	376.0
21242	25 G 0.75	19	15.2	281.0	413.0
21245	32 G 0.75	19	17.0	342.0	485.0
21249	41 G 0.75	19	19.5	400.0	611.0
21251	50 G 0.75	19	21.1	461.0	775.0
21253	2 x 1	18	6.5	50.0	66.0
21254	3 G 1	18	6.9	60.0	82.0
21255	4 G 1	18	7.4	71.0	100.0

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Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu factor per km	Weight kg/km, approx.
21256	5 G 1	18	8.0	88.0	128.0
21257	6 G 1	18	8.8	97.0	145.0
21258	7 G 1	18	8.8	111.0	157.0
21259	8 G 1	18	9.8	127.0	198.0
21261	10 G 1	18	11.3	150.0	230.0
21262	12 G 1	18	11.7	184.0	262.0
21263	14 G 1	18	12.4	196.0	302.0
21264	16 G 1	18	13.0	209.0	345.0
21265	18 G 1	18	13.8	260.0	381.0
21267	21 G 1	18	14.9	319.0	480.0
21268	25 G 1	18	16.3	349.0	535.0
21273	34 G 1	18	18.6	486.0	740.0
21276	41 G 1	18	20.4	531.0	855.0
21278	50 G 1	18	22.2	625.0	1027.0
21280	2 x 1.5	16	7.1	63.0	87.0
21281	3 G 1.5	16	7.5	80.0	102.0
21282	4 G 1.5	16	8.1	97.0	127.0
21283	5 G 1.5	16	9.0	119.0	159.0
21285	7 G 1.5	16	9.9	147.0	207.0
21286	8 G 1.5	16	11.0	170.0	245.0
21287	10 G 1.5	16	12.5	193.0	313.0
21288	12 G 1.5	16	13.1	267.0	340.0
21290	14 G 1.5	16	13.7	283.0	384.0
21291	16 G 1.5	16	14.8	315.0	425.0
21292	18 G 1.5	16	15.5	374.0	480.0
21295	21 G 1.5	16	16.5	425.0	563.0
21296	25 G 1.5	16	18.1	526.0	704.0
21297	34 G 1.5	16	21.2	629.0	870.0
21298	42 G 1.5	16	22.9	819.0	1040.0
21299	50 G 1.5	16	25.1	885.0	1292.0
21300	2 x 2.5	14	8.5	96.0	131.0
21301	3 G 2.5	14	9.0	144.0	168.0
21302	4 G 2.5	14	9.8	148.0	194.0
21303	5 G 2.5	14	10.8	181.0	222.0
21304	7 G 2.5	14	11.9	255.0	345.0
21305	10 G 2.5	14	15.5	340.0	462.0
21306	12 G 2.5	14	16.0	441.0	570.0
21313	2 x 4	12	10.0	120.0	187.0
21314	3 G 4	12	10.6	174.0	243.0
21315	4 G 4	12	11.6	230.0	310.0
21316	5 G 4	12	12.8	273.0	386.0
21317	7 G 4	12	14.2	316.0	498.0
21319	3 G 6	10	12.6	240.0	333.0
21320	4 G 6	10	14.2	305.0	414.0
21321	5 G 6	10	15.4	439.0	510.0
21322	7 G 6	10	17.0	505.0	673.0

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