

Yö-C-PURö-JZ tear and coolant resistant, Cu-screened, with inner sheath, increased oil resistant, EMC-preferred type, meter marking



HELUKABEL Yö-C-PURö-JZ 3G1,5 QMM / 21475 300/500 V 001041897



Technical data

- Special-PUR sheathed multicore cable adapted to DIN VDE 0285-525-1 / DIN EN 50525-1
- **Temperature range**
flexing -20°C to +80°C
fixed installation -40°C to +80°C
- **Nominal voltage**
up to 2,5 mm² U₀/U 300/500 V
from 4 mm² U₀/U 450/750 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Coupling resistance**
max. 250 Ohm/km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 100x10⁶ cJ/kg (up to 100 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Outer sheath of **oil resistant** PVC compound type T12 adapted to DIN VDE 0207-363-3 / DIN EN 50363-3 for better sliding abilities
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Cores stranded in layers with optimal lay-length
- Inner sheath of **oil resistant** PVC
- Tinned copper braided screen, approx. 85% coverage
- Core wrapping of fleece guarantees easy cable stripping
- Outer sheath of special **full-polyurethane** compound type TMPU to DIN EN 50363-10-2
- Sheath colour grey (RAL 7001)
- with meter marking

Properties

- **Resistant to**
UV-Radiation
Oxygene
Ozone
Hydrolysis
Microbes
- 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 conductor
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:
PURö-JZ

Application

Extremely robust control cable characterised by high abrasion and notch resistance properties. Used for critical areas in such applications as machinery, tooling and plant construction, in rolling mills and steel works because of the resistance to mineral oils and to coolant emulsions in particular. The mechanical strength of the cable is increased by the additional oil-resistant inner sheath. The ideal interference-protected control cable for such applications as given above. Suitable for outdoor installation.

These screened cables are particularly suitable for the interference-free transmission in instrumentation and control engineering applications (electromagnetic compatibility).

EMC = Electromagnetic compatibility

To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
21400	2 x 0,5	7,0	41,0	68,0	20
21401	3 G 0,5	7,3	45,0	84,0	20
21402	4 G 0,5	7,9	54,0	95,0	20
21403	5 G 0,5	8,4	66,0	107,0	20
21405	7 G 0,5	9,1	79,0	135,0	20
21407	10 G 0,5	10,7	107,0	170,0	20
21408	12 G 0,5	11,5	137,0	195,0	20
21409	14 G 0,5	12,2	142,0	222,0	20
21411	18 G 0,5	13,5	156,0	278,0	20
21413	21 G 0,5	14,2	189,0	330,0	20
21415	25 G 0,5	15,7	250,0	406,0	20
21416	30 G 0,5	16,2	297,0	520,0	20
21419	36 G 0,5	17,7	320,0	587,0	20
21420	40 G 0,5	18,4	345,0	655,0	20
21421	50 G 0,5	20,7	407,0	742,0	20

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
21425	2 x 0,75	7,7	46,0	88,0	19
21426	3 G 0,75	8,0	57,0	98,0	19
21427	4 G 0,75	8,5	63,0	112,0	19
21428	5 G 0,75	9,3	76,0	130,0	19
21430	7 G 0,75	9,9	100,0	185,0	19
21432	10 G 0,75	11,8	140,0	270,0	19
21433	12 G 0,75	12,7	175,0	294,0	19
21434	14 G 0,75	13,3	190,0	317,0	19
21436	18 G 0,75	14,9	240,0	357,0	19
21438	21 G 0,75	15,4	274,0	455,0	19
21440	25 G 0,75	17,5	306,0	510,0	19
21443	32 G 0,75	18,9	349,0	688,0	19
21446	41 G 0,75	21,0	403,0	951,0	19
21447	50 G 0,75	23,1	470,0	1100,0	19

Continuation ▶

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Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
21451	2 x 1	8,0	54,0	98,0	18
21452	3 G 1	8,3	64,0	102,0	18
21453	4 G 1	9,0	76,0	145,0	18
21454	5 G 1	9,7	89,0	170,0	18
21456	7 G 1	10,3	114,0	220,0	18
21457	8 G 1	11,2	130,0	270,0	18
21458	10 G 1	12,6	156,0	330,0	18
21459	12 G 1	13,3	186,0	350,0	18
21460	14 G 1	14,1	198,0	402,0	18
21461	16 G 1	14,8	214,0	420,0	18
21462	18 G 1	15,6	284,0	515,0	18
21463	20 G 1	16,4	325,0	545,0	18
21465	25 G 1	18,5	387,0	690,0	18
21468	34 G 1	20,9	500,0	912,0	18
21469	41 G 1	21,5	578,0	1070,0	18
21470	50 G 1	24,8	681,0	1318,0	18
21474	2 x 1,5	8,6	64,0	130,0	16
21475	3 G 1,5	9,2	82,0	152,0	16
21476	4 G 1,5	9,8	99,0	167,0	16
21477	5 G 1,5	10,8	123,0	203,0	16
21479	7 G 1,5	11,7	148,0	305,0	16
21480	8 G 1,5	12,6	172,0	335,0	16
21481	10 G 1,5	14,2	198,0	422,0	16
21482	12 G 1,5	14,9	274,0	435,0	16
21483	14 G 1,5	15,8	294,0	480,0	16
21484	16 G 1,5	16,7	318,0	525,0	16
21485	18 G 1,5	17,4	386,0	642,0	16
21487	21 G 1,5	18,5	447,0	722,0	16
21489	25 G 1,5	20,8	531,0	803,0	16
21492	34 G 1,5	23,2	671,0	1068,0	16
21494	42 G 1,5	25,0	890,0	1370,0	16
21495	50 G 1,5	27,4	997,0	1677,0	16
21499	2 x 2,5	10,1	110,0	180,0	14
21500	3 G 2,5	10,8	148,0	215,0	14
21501	4 G 2,5	11,5	169,0	268,0	14
21502	5 G 2,5	12,8	220,0	349,0	14
21503	7 G 2,5	14,0	284,0	406,0	14
21504	12 G 2,5	17,9	470,0	720,0	14

Part no.	No. cores x cross-sec. mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
21507	2 x 4	13,3	124,0	300,0	12
21508	3 G 4	14,0	178,0	340,0	12
21509	4 G 4	15,3	234,0	408,0	12
21510	5 G 4	16,7	284,0	504,0	12
21511	7 G 4	18,4	321,0	640,0	12
21512	3 G 6	15,6	245,0	453,0	10
21513	4 G 6	17,0	316,0	560,0	10
21514	5 G 6	18,6	442,0	700,0	10
21515	7 G 6	20,4	530,0	905,0	10
21516	3 G 10	19,0	367,0	750,0	8
21517	4 G 10	21,1	549,0	1023,0	8
21518	5 G 10	23,1	604,0	1114,0	8
21519	7 G 10	25,6	820,0	1505,0	8
21521	4 G 16	25,3	807,0	1385,0	6
21522	5 G 16	28,0	940,0	1550,0	6
21524	4 G 25	31,1	1169,0	1894,0	4
21525	5 G 25	34,3	1420,0	2272,0	4
21526	4 G 35	33,9	1680,0	2395,0	2
21527	5 G 35	37,8	2020,0	2890,0	2
21528	4 G 50	40,1	2370,0	3312,0	1
21529	5 G 50	45,0	2880,0	4100,0	1
21530	4 G 70	46,0	3257,0	4605,0	2/0
21531	5 G 70	50,6	4032,0	5710,0	2/0
21532	4 G 95	51,2	4060,0	6055,0	3/0
21533	5 G 95	56,5	5244,0	7520,0	3/0
21534	4 G 120	56,3	5231,0	7318,0	4/0

Dimensions and specifications may be changed without prior notice. (RA02)