

PURö-JZ-HF-YCP EMC-preferred type, cable for drag chains, screened, PUR-outer sheath, meter marking



HELUKABEL PURö-JZ-HF-YCP 7G1,5 QMM / 22456 300/500 V 001041815 CE



Technical data

- Special polyurethane control 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** U₀/U 300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MOhm x 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, extra fine wire conductors, bunch stranded to DIN VDE 0295 cl.6, col. 4, BS 6360 cl.6 and IEC 60228 cl.6
- **Oil resistant** PVC core insulation T12, in 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 selected lay-length
- Fleece separator
- **Oil resistant** PVC inner sheath
- One layer of tinned copper wire screening¹⁾, approx. 85% coverage
- Outer sheath of special **full-polyurethane** to DIN VDE 0207-363-10-2 / DIN EN 50363-10-2
- Colour grey (RAL 7001)
- with meter marking

Properties

- Suitable for outdoor lying and resistant to UV-radiation, oxygen, ozone and hydrolysis. Conditionally resistant to microbes
- Adhesion-low
- 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)
- ¹⁾Change-over up to construction with Cu-screening, tinned, approx. 85% for coverage optimisation of the useful properties are in preparation
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:
PURö-JZ-HF

Application

PURö-JZ-HF-YCP is a highly robust and tare and abrasion resistant cable with excellent resistance properties to mineral oils and cooling fluids, thus making it an ideal choice for installation in most types of industrial machinery as well as in steel works and rolling mills, etc. in fact, wherever you may need a cable to cope with especially critical situations. Easy to install, thanks to its high degree of flexibility. Its high abrasion resistance and good flexing ability make it quick and easy to install and, with its low bending radius, ideal for use with cable trays. This screened cable is ideal for use in data signal transmission free from interferences for measurement and control engineering technology. For applications which go beyond standard solutions (for example for composting appliances or high shelf conveyors with extremely high processing speeds etc.) we recommend for our especially developed enquiry sheet for energy guiding systems. Before installation in cable trays please read the instructions. Further technical details see selection table for drag chain cables, see lead text.

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.	Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
22400	2 x 0,5	7,5	30,0	90,0	20	22417	2 x 0,75	7,5	39,0	106,0	19
22401	3 G 0,5	7,8	38,0	104,0	20	22418	3 G 0,75	7,8	49,0	120,0	19
22402	4 G 0,5	7,8	48,0	123,0	20	22419	4 G 0,75	8,5	60,0	150,0	19
22403	5 G 0,5	8,5	65,0	131,0	20	22420	5 G 0,75	9,1	70,0	158,0	19
22404	7 G 0,5	9,5	70,0	172,0	20	22421	7 G 0,75	10,9	95,0	205,0	19
22405	8 G 0,5	10,4	81,0	195,0	20	22422	8 G 0,75	11,5	104,0	272,0	19
22406	10 G 0,5	11,4	94,0	230,0	20	22423	10 G 0,75	13,0	110,0	290,0	19
22407	12 G 0,5	11,6	110,0	250,0	20	22424	12 G 0,75	13,2	141,0	304,0	19
22408	14 G 0,5	12,0	135,0	280,0	20	22425	14 G 0,75	13,7	163,0	380,0	19
22409	18 G 0,5	13,4	157,0	321,0	20	22426	18 G 0,75	15,2	211,0	418,0	19
22410	21 G 0,5	14,8	175,0	380,0	20	22427	21 G 0,75	16,4	274,0	485,0	19
22411	25 G 0,5	16,1	240,0	445,0	20	22428	25 G 0,75	18,2	322,0	578,0	19
22412	30 G 0,5	16,4	275,0	509,0	20	22429	30 G 0,75	18,6	414,0	630,0	19
22413	34 G 0,5	17,8	305,0	560,0	20	22430	34 G 0,75	20,0	473,0	720,0	19
22414	42 G 0,5	19,1	330,0	780,0	20	22431	42 G 0,75	21,5	583,0	780,0	19
22415	50 G 0,5	20,6	393,0	960,0	20	22432	50 G 0,75	23,7	626,0	954,0	19
22416	61 G 0,5	23,0	541,0	1050,0	20	22433	61 G 0,75	25,9	763,0	1085,0	19

Continuation ▶

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Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
22434	2 x 1	8,5	50,0	116,0	18
22435	3 G 1	8,8	60,0	135,0	18
22436	4 G 1	9,4	73,0	178,0	18
22437	5 G 1	10,7	81,0	188,0	18
22438	7 G 1	12,1	114,0	235,0	18
22439	8 G 1	13,2	130,0	270,0	18
22440	10 G 1	14,6	178,0	340,0	18
22441	12 G 1	14,8	186,0	358,0	18
22442	14 G 1	15,6	231,0	415,0	18
22443	18 G 1	17,0	254,0	500,0	18
22444	21 G 1	19,0	328,0	525,0	18
22445	25 G 1	20,9	378,0	678,0	18
22446	32 G 1	22,6	450,0	777,0	18
22447	34 G 1	23,3	478,0	825,0	18
22448	41 G 1	25,1	576,0	980,0	18
22449	42 G 1	25,3	590,0	998,0	18
22450	50 G 1	27,6	702,0	1160,0	18
22451	65 G 1	30,7	913,0	1670,0	18
22452	2 x 1,5	9,0	64,0	141,0	16
22453	3 G 1,5	9,4	84,0	164,0	16
22454	4 G 1,5	10,6	99,0	220,0	16
22455	5 G 1,5	11,4	120,0	233,0	16
22456	7 G 1,5	13,3	148,0	323,0	16
22457	8 G 1,5	14,5	191,0	369,0	16
22458	10 G 1,5	15,9	240,0	461,0	16
22459	12 G 1,5	16,1	274,0	481,0	16
22460	14 G 1,5	16,7	340,0	561,0	16
22461	18 G 1,5	18,4	395,0	672,0	16
22462	21 G 1,5	20,6	461,0	780,0	16
22463	25 G 1,5	22,8	533,0	927,0	16
22464	30 G 1,5	23,5	608,0	1030,0	16
22465	34 G 1,5	26,1	702,0	1180,0	16
22466	42 G 1,5	27,8	867,0	1458,0	16
22467	50 G 1,5	30,3	1033,0	1857,0	16
22468	61 G 1,5	32,7	1233,0	2250,0	16
22469	65 G 1,5	33,5	1315,0	2401,0	16

Part no.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
22470	2 x 2,5	10,9	96,0	185,0	14
22471	3 G 2,5	11,4	150,0	278,0	14
22472	4 G 2,5	12,2	159,0	370,0	14
22473	5 G 2,5	13,5	195,0	412,0	14
22474	7 G 2,5	16,0	240,0	470,0	14
22475	12 G 2,5	19,4	390,0	738,0	14
22476	14 G 2,5	20,4	480,0	870,0	14
22477	18 G 2,5	23,0	620,0	1100,0	14
22478	25 G 2,5	27,7	821,0	1512,0	14
22479	2 G 4	13,1	135,0	235,0	12
22480	3 G 4	13,7	178,0	350,0	12
22481	4 G 4	15,6	222,0	460,0	12
22482	5 G 4	16,7	328,0	550,0	12
22483	7 G 4	19,7	360,0	700,0	12
22484	3 G 6	16,0	250,0	525,0	10
22485	4 G 6	17,2	305,0	700,0	10
22486	5 G 6	19,3	441,0	800,0	10
22487	7 G 6	21,6	505,0	1100,0	10
22488	3 G 10	20,4	370,0	855,0	8
22489	4 G 10	23,0	485,0	1140,0	8
22490	5 G 10	25,3	610,0	1310,0	8
22491	7 G 10	28,0	820,0	1630,0	8
22492	4 G 16	26,2	840,0	1391,0	6
22493	5 G 16	28,6	1050,0	1810,0	6
22494	7 G 16	31,5	1510,0	2166,0	6

Dimensions and specifications may be changed without prior notice. (RC02)