PURö-JZ-HF-YCP / PURö-OZ-HF-YCP

oil-resistant PVC core insulation, with inner sheath, EMC-preferred type



TECHNICAL DATA

PUR drag chain 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	4000 V
Breakdown voltage	8000 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, extra finely stranded acc. to DIN VDE 0295 Class 6 / IEC 60228 Class 6
- Core insulation: oil-resistant PVC in alignment with DIN VDE 0207-363-3 / DIN EN 50363-3 (compound type TI2)
- 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 optimally matched lay lengths
- Fleece wrapping
- Inner sheath: PVC
- Screen: braided screen of tinned copper, 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
- suitable for use in drag chains
- 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

Extremely robust drag chain cable, which is distinguished by its high abrasion resistance and notch-tensile strength properties. 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. Due to its high abrasion resistance and small bending radius, it is ideally suited for use in drag chain systems. These screened cables are ideally suited for interference-free data signal transmission in measurement and control technology. 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
- for use in energy supply systems:
  1) the assembly instructions must be observed
  2) for further application parameters, please refer to the selection tables
  3) for special applications, we recommend contacting us and using our data entry form for energy supply systems

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
22400	2 x 0.5	20	6.9	30.0	90.0
22401	3 G 0.5	20	7.2	38.0	104.0
22402	4 G 0.5	20	7.8	48.0	123.0
22403	5 G 0.5	20	8.3	65.0	131.0
22404	7 G 0.5	20	9.6	70.0	172.0
22405	8 G 0.5	20	10.5	81.0	195.0
22406	10 G 0.5	20	11.5	94.0	230.0
22407	12 G 0.5	20	11.5	110.0	250.0
22408	14 G 0.5	20	12.1	135.0	280.0
22409	18 G 0.5	20	13.6	157.0	321.0
22410	21 G 0.5	20	15.0	175.0	380.0
22411	25 G 0.5	20	16.3	240.0	445.0
22412	30 G 0.5	20	16.6	275.0	509.0
22413	34 G 0.5	20	18.1	305.0	560.0

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
22414	42 G 0.5	20	19.5	330.0	780.0
22415	50 G 0.5	20	21.3	393.0	960.0
22416	61 G 0.5	20	23.5	541.0	1050.0
22417	2 x 0.75	19	7.6	39.0	106.0
22418	3 G 0.75	19	7.9	49.0	120.0
22419	4 G 0.75	19	8.5	60.0	150.0
22420	5 G 0.75	19	9.2	70.0	158.0
22421	7 G 0.75	19	10.8	95.0	205.0
22422	8 G 0.75	19	11.5	104.0	272.0
22423	10 G 0.75	19	12.7	110.0	290.0
22424	12 G 0.75	19	12.7	141.0	304.0
22425	14 G 0.75	19	13.9	163.0	380.0
22426	18 G 0.75	19	15.2	211.0	418.0
22427	21 G 0.75	19	16.7	274.0	485.0

Continued on next page

23.11.2020 / We reserve the right to make technical changes; the imprint in the image is purely exemplary

PURö-JZ-HF-YCP / PURö-OZ-HF-YCP

oil-resistant PVC core insulation, with inner sheath, EMC-preferred type

Part no.	No. cores x cross-sec. mm²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
22428	25 G 0.75	19	18.3	322.0	578.0
22429	30 G 0.75	19	18.7	414.0	630.0
22430	34 G 0.75	19	20.6	473.0	720.0
22431	42 G 0.75	19	22.1	583.0	780.0
22432	50 G 0.75	19	24.1	626.0	954.0
22433	61 G 0.75	19	26.4	763.0	1085.0
22434	2 x 1	18	7.9	50.0	116.0
22435	3 G 1	18	8.3	60.0	135.0
22436	4 G 1	18	9.0	73.0	178.0
22437	5 G 1	18	9.6	81.0	188.0
22438	7 G 1	18	11.3	114.0	235.0
22439	8 G 1	18	12.2	130.0	270.0
22440	10 G 1	18	14.0	178.0	340.0
22441	12 G 1	18	14.0	186.0	358.0
22442	14 G 1	18	14.7	231.0	415.0
22443	18 G 1	18	16.2	254.0	500.0
22444	21 G 1	18	17.9	328.0	525.0
22445	25 G 1	18	19.6	378.0	678.0
22446	32 G 1	18	21.0	450.0	777.0
22447	34 G 1	18	21.7	478.0	825.0
22448	41 G 1	18	23.6	576.0	980.0
22449	42 G 1	18	23.6	590.0	998.0
22450	50 G 1	18	25.7	702.0	1160.0
22451	65 G 1	18	28.9	913.0	1670.0
22452	2 x 1.5	16	8.5	64.0	141.0
22453	3 G 1.5	16	9.1	84.0	164.0
22454	4 G 1.5	16	9.7	99.0	220.0
22455	5 G 1.5	16	10.9	120.0	233.0
22456	7 G 1.5	16	12.5	148.0	323.0
22457	8 G 1.5	16	13.9	191.0	369.0
22458	10 G 1.5	16	15.4	240.0	461.0
22459	12 G 1.5	16	15.4	274.0	481.0
22460	14 G 1.5	16	16.2	340.0	561.0
22461	18 G 1.5	16	18.1	395.0	672.0
22462	21 G 1.5	16	20.2	461.0	780.0
22463	25 G 1.5	16	22.1	533.0	927.0
22464	30 G 1.5	16	22.5	608.0	1030.0
22465	34 G 1.5	16	24.4	702.0	1180.0
22466	42 G 1.5	16	26.5	867.0	1458.0
22467	50 G 1.5	16	28.8	1033.0	1857.0
22468	61 G 1.5	16	31.6	1233.0	2250.0
22469	65 G 1.5	16	32.6	1315.0	2401.0
22470	2 x 2.5	14	9.9	96.0	185.0
22471	3 G 2.5	14	10.8	150.0	278.0
22472	4 G 2.5	14	11.8	159.0	370.0
22473	5 G 2.5	14	12.7	195.0	412.0
22474	7 G 2.5	14	15.3	240.0	470.0
22475	12 G 2.5	14	18.5	390.0	738.0
22476	14 G 2.5	14	19.7	480.0	870.0
22477	18 G 2.5	14	22.1	620.0	1100.0
22478	25 G 2.5	14	27.1	821.0	1512.0
22479	2 x 4	12	11.5	135.0	235.0
22480	3 G 4	12	12.3	178.0	350.0
22481	4 G 4	12	13.9	222.0	460.0
22482	5 G 4	12	15.1	328.0	550.0
22483	7 G 4	12	18.0	360.0	700.0
22484	3 G 6	10	15.2	250.0	525.0
22485	4 G 6	10	16.6	305.0	700.0
22486	5 G 6	10	18.3	441.0	800.0
22487	7 G 6	10	22.2	505.0	1100.0
22488	3 G 10	8	18.7	370.0	855.0
22489	4 G 10	8	21.0	485.0	1140.0
22490	5 G 10	8	22.8	610.0	1310.0
22491	7 G 10	8	28.4	820.0	1630.0
22492	4 G 16	6	24.0	840.0	1391.0
22493	5 G 16	6	26.6	1050.0	1810.0
22494	7 G 16	6	32.3	1510.0	2166.0

23. 11. 2020 / We reserve the right to make technical changes; the imprint in the image is purely exemplary