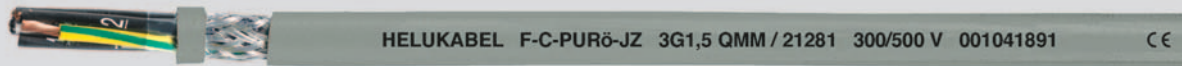


# F-C-PURö-JZ

tear and coolant resistant, Cu-screened, without inner sheath, increased oil resistant, EMC-preferred type, meter marking



## Technical data

- Special-PUR 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**  $U_0/U$  300/500 V
- **Test voltage** 3000 V
- **Breakdown voltage** min. 6000 V
- **Coupling resistance**  
max. 250 Ohm/km
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø
- **Radiation resistance**  
up to  $100 \times 10^6$  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
- Core insulation 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
- Separating foil
- 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) also available in other colours on request
- 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  $\text{mm}^2$ .
- unscreened analogue type:  
**PURö-JZ**, confer page 68

## 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. Rapid and safe installation assured by the good flexibility of the cable. Suitable for outdoor installation.

An interference-free transmission of signals and pulses is assured by the high screening density. The ideal interference-protected control cable for such applications as given above.

**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. $\text{mm}^2$	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
21200	2 x 0,5	5,7	35,0	44,0	20
21201	3 G 0,5	5,9	42,0	56,0	20
21202	4 G 0,5	6,4	47,0	60,0	20
21203	5 G 0,5	6,9	56,0	75,0	20
21205	7 G 0,5	7,6	69,0	97,0	20
21207	10 G 0,5	9,6	94,0	133,0	20
21208	12 G 0,5	9,7	108,0	158,0	20
21209	14 G 0,5	10,2	116,0	190,0	20
21211	18 G 0,5	11,5	145,0	218,0	20
21213	21 G 0,5	12,3	188,0	252,0	20
21215	25 G 0,5	13,7	240,0	315,0	20
21217	30 G 0,5	14,4	295,0	362,0	20
21220	36 G 0,5	15,6	318,0	447,0	20
21221	40 G 0,5	16,4	343,0	475,0	20
21224	50 G 0,5	18,5	406,0	572,0	20

Part no.	No. cores x cross-sec. $\text{mm}^2$	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
21227	2 x 0,75	6,1	40,0	60,0	19
21228	3 G 0,75	6,3	52,0	67,0	19
21229	4 G 0,75	6,8	60,0	76,0	19
21230	5 G 0,75	7,4	71,0	92,0	19
21232	7 G 0,75	8,2	91,0	131,0	19
21234	10 G 0,75	10,3	137,0	180,0	19
21235	12 G 0,75	10,5	142,0	204,0	19
21236	14 G 0,75	11,3	180,0	226,0	19
21238	18 G 0,75	12,7	212,0	290,0	19
21240	21 G 0,75	13,6	246,0	376,0	19
21242	25 G 0,75	15,0	281,0	413,0	19
21245	32 G 0,75	16,7	342,0	485,0	19
21249	41 G 0,75	18,2	400,0	611,0	19
21251	50 G 0,75	20,3	461,0	775,0	19

Continuation ▶

# F-C-PURÖ-JZ

tear and coolant resistant, Cu-screened, without inner sheath, increased oil resistant, EMC-preferred type, meter marking

EAC

A

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
21253	2 x 1	6,4	50,0	66,0	18
21254	3 G 1	6,7	60,0	82,0	18
21255	4 G 1	7,2	71,0	100,0	18
21256	5 G 1	8,0	88,0	128,0	18
21257	6 G 1	8,7	97,0	145,0	18
21258	7 G 1	8,7	111,0	157,0	18
21259	8 G 1	9,6	127,0	198,0	18
21261	10 G 1	11,2	150,0	230,0	18
21262	12 G 1	11,4	184,0	262,0	18
21263	14 G 1	12,0	196,0	302,0	18
21264	16 G 1	12,8	209,0	345,0	18
21265	18 G 1	13,6	260,0	381,0	18
21267	21 G 1	14,3	319,0	480,0	18
21268	25 G 1	16,2	349,0	535,0	18
21273	34 G 1	18,5	486,0	740,0	18
21276	41 G 1	19,5	531,0	855,0	18
21278	50 G 1	22,0	625,0	1027,0	18
21280	2 x 1,5	7,0	63,0	87,0	16
21281	3 G 1,5	7,4	80,0	102,0	16
21282	4 G 1,5	8,1	97,0	127,0	16
21283	5 G 1,5	9,0	119,0	159,0	16
21285	7 G 1,5	9,8	147,0	207,0	16
21286	8 G 1,5	10,8	170,0	245,0	16
21287	10 G 1,5	12,6	193,0	313,0	16
21288	12 G 1,5	12,8	267,0	340,0	16

Part no.	No.cores x cross-sec. mm <sup>2</sup>	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
21290	14 G 1,5	13,5	283,0	384,0	16
21291	16 G 1,5	14,6	315,0	425,0	16
21292	18 G 1,5	15,6	374,0	480,0	16
21295	21 G 1,5	16,6	425,0	563,0	16
21296	25 G 1,5	18,5	526,0	704,0	16
21297	34 G 1,5	21,2	629,0	870,0	16
21298	42 G 1,5	22,2	819,0	1040,0	16
21299	50 G 1,5	25,0	885,0	1292,0	16
21300	2 x 2,5	8,4	96,0	131,0	14
21301	3 G 2,5	8,8	144,0	168,0	14
21302	4 G 2,5	9,8	148,0	194,0	14
21303	5 G 2,5	10,8	181,0	222,0	14
21304	7 G 2,5	11,9	255,0	345,0	14
21305	10 G 2,5	15,5	340,0	462,0	14
21306	12 G 2,5	15,8	441,0	570,0	14
21313	2 x 4	10,0	120,0	187,0	12
21314	3 G 4	10,6	174,0	243,0	12
21315	4 G 4	11,6	230,0	310,0	12
21316	5 G 4	12,8	273,0	386,0	12
21317	7 G 4	14,2	316,0	498,0	12
21319	3 G 6	12,5	240,0	333,0	10
21320	4 G 6	13,8	305,0	414,0	10
21321	5 G 6	15,4	439,0	510,0	10
21322	7 G 6	17,0	505,0	673,0	10

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



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-MS-EP4