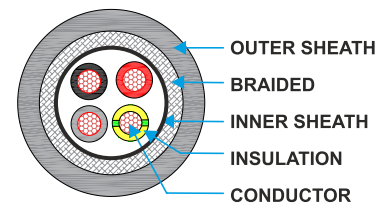




# Control Cables - JZ-500 CY

PUR Copper Screen Braided with Number Coding



## Application

Extremely robust cable noted for its good abrasion resistance and notch resistance. Due to its resistance to coolant emulsions, this cable is well suited for use in mechanical engineering, tool making, and systems engineering, and in steel mills and rolling mills in particularly critical areas. Good flexibility means that installation is quick and easy. Suitable for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms, and in open air (fixed installation). The dense screening assures interference-free transmission of all signals and impulses. An ideal interference-free control cable for the above applications. To optimize the EMC features we recommend a large round contact of the copper braiding on both ends. The product conforms to the EC Low-Voltage Directive 2006/95/EC.

## Properties

- Resistant to UV-radiation, oxygen, ozone, hydrolyse, temperature range and microbes
- Low adhesion, matt surface
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Construction

- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3 Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5.
- 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 from special full polyurethane compound type Tmpu to DIN EN 50363-10-2.
- Sheath colour grey (RAL 7001) also available in other colours on request.

## Technical Parameter

- Special-PUR control cable adapted to DIN VDE 0285-525-1 / DIN EN 50525-1
- Temperature range : Flexing -10°C to +80°C fixed installation -40°C to +80°C
- Nominal voltage : U0/U 300/500 V
- Test voltage 3000 V
- Breakdown voltage min. 6000 V
- Coupling resistance max. 250 Ohm/km
- Minimum bending radius : flexing 10 x cable Ø, fixed installation 5 x cable Ø
- Radiation resistance : up to 100 x 106 cJ/kg



## Cable Design Parameters

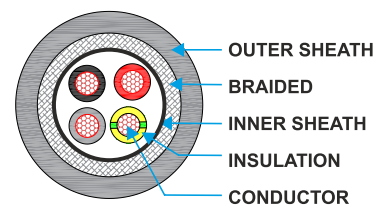
Part No.	No. Core X Cross-Sec. (mm <sup>2</sup> )	Outer Dia Approx (mm)	Weight Approx (kg/km)
0807B020005	2 x 0,5	5,7	47,0
0807B030005X	3 G 0,5	5,9	57,0
0807B030005	3 x 0,5	5,9	57,0
0807B040005X	4 G 0,5	6,4	60,0
0807B040005	4 x 0,5	6,4	60,0
0807B050005X	5 G 0,5	6,9	75,0
0807B050005	5 x 0,5	6,9	75,0
0807B070005X	7 G 0,5	7,6	97,0
0807B070005	7 x 0,5	7,6	97,0
0807B100005X	10 G 0,5	9,6	133,0
0807B120005X	12 G 0,5	9,7	158,0
0807B180005X	18 G 0,5	11,5	218,0
0807B250005X	25 G 0,5	13,7	315,0
0807B340005X	34 G 0,5	15,5	420,0
0807B420005X	42 G 0,5	16,9	487,0
0807B020007	2 x 0,75	6,1	60,0
0807B030007X	3 G 0,75	6,3	67,0
0807B030007	3 x 0,75	6,3	67,0
0807B040007X	4 G 0,75	6,8	76,0
0807B040007	4 x 0,75	6,8	76,0
0807B050007	5 x 0,75	7,4	92,0
0807B050007X	5 G 0,75	7,4	92,0
0807B070007	7 x 0,75	8,2	131,0
0807B070007	7 G 0,75	8,2	131,0
0807B100007X	10 G 0,75	10,3	180,0
0807B120007X	12 G 0,75	10,5	204,0
0807B180007X	18 G 0,75	12,7	290,0
0807B250007X	25 G 0,75	15,0	413,0
0807B340007X	34 G 0,75	17,2	492,0
0807B420007X	42 G 0,75	18,8	624,0

0806 - Control Cables



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PUR Copper Screen Braided with Number Coding



0806 - Control Cables

## Cable Design Parameters

Part No.	No. Core X Cross-Sec. (mm <sup>2</sup> )	Outer Dia Approx (mm)	Weight Approx (kg/km)
0807B020010	2 x 1	6,4	66,0
0807B030010X	3 G 1	6,7	82,0
0807B030010	3 x 1	6,7	82,0
0807B040010X	4 G 1	7,2	100,0
0807B040010	4 x 1	7,2	100,0
0807B050010X	5 G 1	8,0	128,0
0807B050010	5 x 1	8,0	128,0
0807B070010X	7 G 1	8,7	157,0
0807B070010	7 x 1	8,7	157,0
0807B100010X	10 G 1	11,2	230,0
0807B120010X	12 G 1	11,4	262,0
0807B180010X	18 G 1	13,6	381,0
0807B250010X	25 G 1	16,2	535,0
0807B340010X	34 G 1	18,5	740,0
0807B420010X	42 G 1	20,2	867,0
0807B500010X	50 G 1	22,0	1027,0
0807B020015	2 x 1,5	7,0	87,0
0807B030015X	3 G 1,5	7,4	102,0
0807B030015	3 x 1,5	7,4	102,0
0807B040015X	4 G 1,5	8,1	127,0
0807B040015	4 x 1,5	8,1	127,0
0807B050015X	5 G 1,5	9,0	159,0
0807B050015	5 x 1,5	9,0	159,0
0807B070015X	7 G 1,5	9,8	207,0
0807B120015X	12G1,5	12,8	340,0
0807B180015X	18G1,5	15,6	480,0
0807B250015X	25G1,5	18,4	704,0
0807B300015X	30G1,5	19,6	817,0
0807B020025	2x2,5	8,4	131,0
0807B030025X	3G2,5	8,8	168,0
0807B040025X	4 G 2,5	9,8	194,0
0807B050025X	5 G 2,5	10,8	222,0
0807B070025X	7 G 2,5	11,9	345,0
0807B120025X	12 G 2,5	15,8	570,0
0807B040040X	4 G 4	11,6	310,0
0807B050040X	5 G 4	12,9	386,0
0807B070040X	7 G 4	14,2	498,0
0807B040060X	4 G 6	13,8	414,0
0807B050060X	5 G 6	15,4	510,0
0807B070060X	7 G 6	17,0	673,0
0807B070100X	4 G 10	17,2	591,0
0807B070100X	5 G 10	19,1	768,0
0807B070100X	7 G 10	21,2	976,0
0807B040160X	4 G 16	20,3	1196,0

X=Green/Yellow