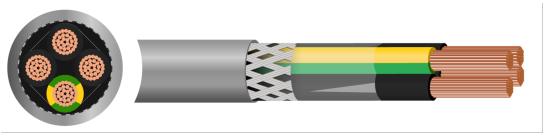
Control PUR-JZ Screened Cable - 1mm² to 6mm²



Description

PUR-JZ screened cable is a high-performance control and signal line featuring Class 5 copper conductors, PVC insulation, and a Polyurethane (PUR) outer sheath. It features a tinned copper wire braid (TCWB) to provide effective electromagnetic compatibility (EMC) shielding, mitigating signal distortion in high-interference environments. It is engineered for durability, with a bending radius of bend radius of 5 times the outer diameter while offering operational stability across a wide thermal range, from -40°C to +80°C.

The cables is designed for high-stress industrial applications and is particularly suited for environments where resistance to mineral oils, coolants, and abrasion is critical. It is frequently deployed in machine tool manufacturing, automotive production, and robotic assembly lines due to its superior mechanical strength and tearing resistance. The "JZ" variant has black, numbered cores with an integrated green-yellow earth conductor, supporting safe electrical termination in systems requiring a dedicated ground.

The main advantage of the PUR-JZ variant is its chemical and UV resistance, allowing for reliable performance in both indoor and outdoor settings. Its polyurethane jacket is notch-resistant and flame-retardant, providing a robust solution for installations subjected to continuous flexing or medium mechanical loads. This combination of durability and shielding makes it the preferred choice for industrial sectors requiring long-term reliability under harsh operational conditions.

Key Features

Voltage Rating
300/500 Volts

Minimum Bending Radius
Fixed: 5 x overall diameter
Flexing: 10 x overall diameter

Flame Retardancy
BS EN/IEC 60332-1-2

Temperature Limits
Fixed: -40°C to +80°C
Flexing: -5°C to +80°C

Core Colours

Green Yellow and Black numbered

Standards

- BS EN/IEC 60811-404
- BS EN/IEC 60332-1

Construction

- **Conductor**: Class 5 flexible stranded copper conductor
- **Insulation**: Polyvinyl Chloride (PVC)
- **Braiding**: Tinned Copper Wire Braiding (TCWB)
- **Outer Sheath**: Polyurethane (PUR)
- **Sheath Colour**: Grey

Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing.

ISO/IEC 17025 Accredited Testing Laboratory

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

Control PUR-JZ Screened Cable - 1mm² to 6mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
PURJZS2X1	1	2	6.10	65
PURJZS3X1	1	3	6.20	80
PURJZS4X1	1	4	6.90	125
PURJZS5X1	1	5	7.40	125
PURJZS7X1	1	7	8.90	170
PURJZS2X1/5	1.5	2	7.10	95
PURJZS3X1/5	1.5	3	6.70	135
PURJZS4X1/5	1.5	4	7.50	150
PURJZS5X1/5	1.5	5	8.20	160
PURJZS7X1/5	1.5	7	10	210
PURJZS3X2/5	2.5	3	8.50	180
PURJZS4X2/5	2.5	4	9.80	220
PURJZS5X2/5	2.5	5	11.00	240
PURJZS7X2/5	2.5	7	12.40	345
PURJZS4X4	4	4	11.50	305
PURJZS5X4	4	5	13.20	395
PURJZS4X6	6	4	14.00	435
PURJZS5X6	6	5	15.20	510
PURJZS12X1	12	1	10.90	262
PURJZS12X1/5	12	1.5	12.10	352
PURJZS12X2/5	12	2.5	15.50	580
PURJZS18X1	18	1	13.80	390
PURJZS8X1/5	18	1.5	15.40	510
PURJZS18X2/5	18	2.5	19.00	985
PURJZS21X1	21	1	13.50	480
PURJZS25X1	25	1	15.70	590
PURJZS25X1/5	25	1.5	17.80	725
PURJZS25X2/5	25	2.5	22.10	1365

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.