

## BO-ELEC ROBOT C-PUR 300V

Multi-core shielded cables with low-capacity insulation and polyurethane sheath for torsional applications in the presence of oils with high abrasion resistance

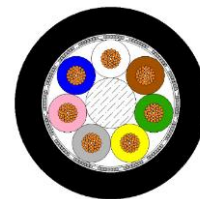


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|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Conductor:</b>                               | Bare copper according to VDE 0295 - IEC 60228 cl.6                                                                                                                                                                                                                                                                                                                                                              |
| <b>Insulation:</b>                              | Polypropylene compound                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Colour Code:</b>                             | Black with white numbers + G/Y                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Wrapping:</b>                                | Conductors cabled together in layer construction, fillers admitted<br><b>Taping:</b> Teflon PTFE foil                                                                                                                                                                                                                                                                                                           |
| <b>Screen:</b>                                  | Tinned copper spiral, optical coverage approx 90%<br><b>Taping:</b> Non woven tape                                                                                                                                                                                                                                                                                                                              |
| <b>Outer Sheath:</b>                            | Polyurethane compound<br><b>Colour:</b> Black, RAL 9005 (or to be agreed)                                                                                                                                                                                                                                                                                                                                       |
| <b>Cable Printing:</b>                          | - Standard                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Technical Data &amp; Standard References</b> | <b>Temperatur Range:</b><br>-30°C +80°C (Flexible application)<br>-40°C +80°C (Fixed installation)<br><b>Working Voltage:</b> 300V<br><b>Test Voltage:</b> 2000V<br><b>Insutlation Resistance:</b> At 20°C > 1 GΩ Km<br><b>Conductor Resistance:</b> Max at 20°C in accordance with IEC 60228 and VDE 0812                                                                                                      |
|                                                 | <b>Bending Radius:</b> 7,5 X D (Flexible application) - 4 X D (Fixed installation)<br><b>Torsion Stress:</b> +/- 360°/m                                                                                                                                                                                                                                                                                         |
|                                                 | <b>Abrasion Resistance:</b> ASTM D 4060<br><b>Water Resistance:</b> EN 60811-1-3<br><b>Mud Resistance:</b> NEK 606<br><b>Ozone Resistance:</b> EN 50396 Art. 8.1.3<br><b>Microbe Resistance:</b> VDE 0282/10<br><b>Flame Resistance:</b> IEC 60332-1-2, UL 1581 VW-1, CSA FT1<br><b>Oil Resistance:</b> VDE 0473-811-404, UL 1581, IEC 60811-404<br><b>UV Resistance:</b> Yes<br><b>Aprovals:</b> UL STYLE 2570 |

## TECHNICAL DATA AND PRODUCT FEATURES

|                                                                                     |                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|    | <b>TEMPERATURE RANGE</b><br>-30°C +80°C (Flexible application)<br>-40°C +80°C (Fixed installation) |
|    | <b>WORKING VOLTAGE</b><br>300 V                                                                    |
|    | <b>TEST VOLTAGE</b><br>2000 V                                                                      |
|   | <b>INSULATION RESISTANCE</b><br>At 20°C > 1 GΩ Km                                                  |
|  | <b>CONDUCTOR RESISTANCE</b><br>Max at 20°C in accordance with IEC 60228 and VDE 0812               |
|  | <b>HALOGEN FREE</b><br>IEC 60754-1                                                                 |
|  | <b>FLAME RESISTANCE</b><br>IEC 60332-1-2, UL 1581, CSA FT1                                         |
|  | <b>OIL RESISTANCE</b><br>VDE 0473-811-404, UL 1581, IEC 60811-404                                  |
|  | <b>UV RESISTANCE</b><br>Yes                                                                        |
|  | <b>ABRASION RESISTANCE</b><br>ASTM D 4060                                                          |
|  | <b>WATER RESISTANCE</b><br>EN 60811-1-3                                                            |
|  | <b>MUD RESISTANCE</b><br>NEK 606                                                                   |

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|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  | <b>MICROBE RESISTANCE</b><br>VDE 0282/10                                             |
|  | <b>OZONE RESISTANCE</b><br>EN 50396 Art. 8.1.3                                       |
|  | <b>APPROVALS</b><br>UL STYLE 20233 – 20549                                           |
|  | <b>BENDING RADIUS</b><br>7,5 X D (Flexible application) - 4 X D (Fixed installation) |

**Application:** Multi-core shielded cables with low-capacity insulation and polyurethane sheath for torsional applications in the presence of oils with high abrasion resistance.