



<b>GROUP</b>	<b>SG</b>	<b>PRODUCT SPECIFICATION</b> <b>WIRE AND CABLE INSULATION, PROTECTION, AND IDENTIFICATION. TRANSMISSION OF LIQUIDS AND GASSES</b>	
<b>SPEC NO</b>	<b>WE-PCW-E-90</b>		
<b>REVISION</b>	<b>20.01</b>		
<b>DATE OF ISSUE</b>	<b>2020-03-18</b>	<b>ELECTRICAL PVC TUBING/SLEEVING</b>	

<b>DESCRIPTION</b>
Electrical PVC tubing/sleeving is available in the inside diameter range from 0,5 mm to 35 mm and wall thickness range from 0,3 mm to 4,0 mm in a variety of standard and custom colours, plain or stripped. Special sizes and finishes are available upon request. Electrical PVC tubing/sleeving is resistant to most chemicals, oils, acids, common cleaning solvents and solutions. Electrical PVC tubing/sleeving is self-extinguishing and successfully passed a full cycle flammability tests conducted according to Underwriters Laboratories Inc. standard UL 1581 method VW-1 as confirmed by a Test Report.

<b>PICTURE</b>	<b>SIZES</b>								
	<table border="1"> <tr> <th>Inside diameter (range) [mm]</th> <th>Wall thickness (range) [mm]</th> </tr> <tr> <td>0,5 - 35</td> <td>0,3 – 2,0 others upon request</td> </tr> </table>	Inside diameter (range) [mm]	Wall thickness (range) [mm]	0,5 - 35	0,3 – 2,0 others upon request				
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<b>TECHNICAL DATA</b>			
Material	Electrical grade soft PVC (polyvinyl chloride), flammability rating UL 94 V-1		
Colour	Standard. Custom colours also available with minimum order q-ty of 10 kg.		
Applications	Wire, cable, hydraulic lines etc. insulation, sleeving, shielding and protection against abrasion and damage. Commonly used as liquid and gas lines. Other uses include wire marking and identification, etc.		
Thermal properties	Temperature range – continuous	-20°C ... +90°C	
Flamability	Flammability Class	Self-extinguishing	UL 1581:2001 method VW-1
Mechanical properties	Hardness Shore A	85-90° ShA	PN-C-89265-4
	Tensile Strength at 20°C	15-16 MPa	PN-C-89265-4:3.7
	Elongation	220%	PN-C-89265-4:3.7
	Volume Resistivity (at 20 °C)	5*10 <sup>12</sup> Ω·cm	PN-C-89265-4
	Volume Resistivity (at 70 °C)	2*10 <sup>10</sup> Ω·cm	PN-C-89265-4
	Dielectric Strength	23 kV/mm	PN-C-89265-4
	Cracking resistance	no cracking	PN-C-89265-4:3.14.1
Other properties	Non toxic, no identified harmful effects on human health.		
Tests and certification	Meets the requirements of the European Directive 2015/863/WE (RoHS3) dated March 31, 2015 restricting the use of some substances within electrical and electronic equipment. Certificate of Conformance – Biuro Badawcze Jakości – SEP, Certificate of Conformance with IEC European Standard 60.227-BBJ-SEP, Test Report No. TP-03.070/2/E UL1581:2001 VW-1 ZETOM Certificate No. 25/02 Safety Mark B Flamability according to standard PN-EN 60695-11-10:2014, classification UL94 Compliance with the standard: PN-EN 60684-1:2002, PN-89/C-89209, PN-73/E-29200, DIN 40621		
Part Number	WE-[ a* ]-[ b* ]-PCW-E-90 a* – inside diameter, b* – wall thickness		

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