

## Joists for polymer cables

# Slip-on joints for polymer cables up to 145 kV

### Variety of joints for your individual application needs


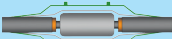


To assist you in the selection of the appropriate type of joint for your application, we have compiled an application table as given below.

specifications. All joints are designed so that direct- or indirect earthing, straight through connection or cross bonding can be realised.




### High flexibility in earthing

Earthing of our joints can be made according to customer

### Applications of joints for polymer cables

Type	Radial moisture barrier	Mechanical protection	Advantages	Application
MPAH 	Metal sheet	Heat shrink cover	<ul style="list-style-type: none"> <li>Extremely compact dimensions</li> <li>Basic sealing against moisture</li> <li>Cost effective</li> </ul>	<ul style="list-style-type: none"> <li>For limited dimensions, such as small manholes</li> <li>In tunnels or concrete manholes without permanent water ingress</li> </ul>
MPAP 	Metal sheet	Protection box	<ul style="list-style-type: none"> <li>Good mechanical protection in different environments</li> <li>Excellent sealing against moisture</li> </ul>	<ul style="list-style-type: none"> <li>In all types of laying, such as in tunnels, concrete pits or directly buried installations</li> <li>In buried installations with humid soil</li> </ul>
MPCC 	Cu-tube	Cu-tube with HDPE coating	<ul style="list-style-type: none"> <li>Compact dimensions</li> <li>High degree of mechanical protection</li> <li>Excellent sealing against moisture</li> </ul>	<ul style="list-style-type: none"> <li>In all types of laying, such as in tunnels, concrete pits or directly buried installations</li> <li>In installations with permanent humidity or shallow water</li> </ul>
MPCP 	Cu-tube	Cu-tube and protection box	<ul style="list-style-type: none"> <li>Highest degree of mechanical protection</li> <li>Excellent sealing against moisture</li> </ul>	<ul style="list-style-type: none"> <li>In all types of laying, such as in tunnels, concrete pits or directly buried installations</li> <li>In installations with permanent humidity or shallow water</li> </ul>

### Types of earthing of joints for polymer cables

Type	Screen connection	Application
-21 	Straight through connection, insulated to ground	Direct connection of cable screen without cross bonding
-21sp 	Straight through connection with direct or indirect earthing	Connection of cable screen to earthing link
-31 	Screen interruption, insulated to ground for cross bonding	Cross bonding of cable screen at the joint

### Technical data of joints for polymer cables

Operating voltage $U_{max}/kV$	$\varnothing$ over XLPE insulation mm	Max. conductor cross-section (Cu/Al) mm <sup>2</sup>	Max. $\varnothing$ of outer sheath mm	Type	Mechanical protection and radial moisture barrier
145	35 - 100	2500	155	MPAH 1.145-21/-21sp/-31	Metal sheet with heat shrink cover
	35 - 100	2500	155	MPAP 1.145-21/-21sp/-31	Metal sheet with polyester protection box
	35 - 78	1200	150	MPCC 1.145-21/-21sp/-31 <sup>1</sup>	Cu-tube with HDPE coating
	78 - 100	2500	155	MPCC 1.145-22/-22sp/-32 <sup>1</sup>	Cu-tube with HDPE coating
	35 - 78	1200	150	MPCP 1.145-21/-21sp/-31 <sup>1</sup>	Cu-tube with polyester protection box
	78 - 100	2500	155	MPCP 1.145-22/-22sp/-32 <sup>1</sup>	Cu-tube with polyester protection box

<sup>1</sup> The type of joint to be applied is only determined by diameter over insulation. If this value exceeds the stipulated dimensions, the larger joint type must be chosen.