



**Z1190 | POF Optical fiber light 980/1000 μm - core, 2-wired, PU-jacket D=6.4 mm**

<b>Construction</b>	<b>Z1190</b>	
<b>Fiber</b>	<ul style="list-style-type: none"> <li>Plastic fiber optic 980/1000 μm made from PMMA with fluor polymeric cladding, diameter 1,0 mm</li> </ul>	
<b>Tube</b>	<ul style="list-style-type: none"> <li>PE buffer tube, nominal diameter 2,2 mm</li> <li>Colour: black and blue</li> </ul>	
<b>Stranding</b>	<ul style="list-style-type: none"> <li>2 plastic fiber optics and 2 strain relief elements stranded</li> <li>Fleece wrapping</li> </ul>	
<b>Outer jacket</b>	<ul style="list-style-type: none"> <li>Polyurethane (TPE-U), nominal wall thickness 0,9 mm, colour: red</li> <li>Outer diameter (nominal value) 6,4 mm</li> <li>Inkjet imprint black (distance 0,5 m): -- BECKHOFF Z1190 - I (meter imprint xxx,x m)</li> </ul>	
<b>Use</b>	<ul style="list-style-type: none"> <li>Polymer fiber cable for applications in heavy industrial environment</li> <li>For flexible applications and installing in cable conducts, tubes, on cable ladders as well</li> <li>Suitable for drag chains</li> <li>Suitable for direct plug connectors</li> </ul>	
<b>Transmission properties</b>	<ul style="list-style-type: none"> <li>Attenuation at 650 nm (laser) &lt; 220 dB/km at 660 nm (LED) &lt; 350 dB/km</li> <li>Bandwidth-length-product at 650 nm &gt; 10 MHz x 100 m</li> <li>Numerical aperture 0,50</li> </ul>	
<b>Mechanical properties</b>	<ul style="list-style-type: none"> <li>Bending radius min. short-time, under stress 90 mm permanent, during operation 60 mm</li> <li>Tractive force max. short-time 200 N permanent 100 N</li> <li>Transverse pressure permanent max. short-time 1000 N/dm permanent 100 N/dm</li> <li>Bending strenths 30.000 cycles</li> <li>Drag chain testing radius 10 x Dm., 2 Mio. cycles</li> <li>Abrasion resistance mind. 5.000 cycles referred to DIN VDE 0888, part 100, process 502 1 mm radius of the steel needle tip, 500 g</li> <li>Cable weight ca. 30 kg/km</li> </ul>	

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<b>Thermal properties</b>	<ul style="list-style-type: none"><li>▪ Flame retardant - 40 °C until + 80 °C</li><li>▪ Halogen-free referred to IEC 60754-2 - 5 °C until + 50 °C</li><li>▪ No corrosive and toxic fumes - 40 °C until + 80 °C</li></ul>
<b>Chemical properties</b>	<ul style="list-style-type: none"><li>▪ Very good resistance to oil, gas, acids and bases</li><li>▪ UV resistance of the outer jacket referred to DIN EN ISO 4892-2,</li><li>▪ Process A; UV application 500 hours</li></ul>
<b>Standardization</b>	<ul style="list-style-type: none"><li>▪ Multimode fiber of the category A4a2 IEC 60793-2-40</li><li>▪ IEC 60794-2-42</li></ul>
<b>Ordering information</b>	
<b>Z1190</b>	