

# T1 Industrial M12



Pushing Performance  
Since 1945



Description	Links to Other Materials
<p>HARTING T1 Industrial Single-Pair Ethernet (SPE) Products feature a highly optimized, high-frequency design, shielding, and high mechanical robustness, making them an ideal choice to fulfill industrial SPE demands. The T1 products enable Ethernet data transmissions by using only two wires (TW1STER) and the simultaneous power supply for terminals via a Power over Data Line (PoDL).</p>	<ul style="list-style-type: none"> <li>Links of USB 2.0, 3.0 type A</li> </ul>

Specs	
<ul style="list-style-type: none"> <li>Transmission speed up to 10 Gbit/s</li> <li>Rated Voltage: 60V</li> <li>Current: up to 4A 60°C (AWG22)</li> <li>360° Shielding</li> </ul>	<ul style="list-style-type: none"> <li>Temperature range: -40°C up to +85°C</li> <li>500 Mating cycles</li> <li>Shock and vibration resistance acc. to IEC 61373 Category 1B (Railway Standards)</li> </ul>

Markets
<ul style="list-style-type: none"> <li>Automation</li> <li>Robotics</li> <li>Railway</li> </ul>

Applications
<ul style="list-style-type: none"> <li>Industrial Ethernet cable assemblies</li> <li>Connections to Ethernet enabled devices (switches, IPCs, modems, HMIs, PLCs, etc)</li> <li>Field device applications (sensor, actuator)</li> </ul>

Feature	Advantage	Benefit
<ul style="list-style-type: none"> <li>Height compatible with many different manufacturers</li> </ul>	<ul style="list-style-type: none"> <li>Adjustable height for straight mount PCB applications</li> </ul>	<ul style="list-style-type: none"> <li>Design Flexibility</li> </ul>
<ul style="list-style-type: none"> <li>360 shielding</li> </ul>	<ul style="list-style-type: none"> <li>Protect against EMC, Cross Talk</li> </ul>	<ul style="list-style-type: none"> <li>Signal Integrity guarantee</li> </ul>
<ul style="list-style-type: none"> <li>Shock &amp; vibration acc to 61373 cat 1b</li> </ul>	<ul style="list-style-type: none"> <li>Robust solution</li> </ul>	<ul style="list-style-type: none"> <li>No interferences</li> </ul>