

Fiber-optic Jacketing

For different applications Avantes offers different jacketing material. Standard fiber-optic cables and bifurcated cables are protected by a Kevlar reinforced polypropylene inner tubing with PVC red outer jacket. All of our standard reflection probes are protected by a flexible stainless steel jacket with interlocking profile (BX) or a

chrome-plated brass outer jacket, with hooked profile (ME) for optimal strain relief with silicon or PTFE inner tubing. For waterproof and some medical applications stainless steel spiral jacketing with glassilk and gray outer silicon rubber coating can be provided. Inside this jacket silicon or PTFE inner tubing is used as well. For

heavy industrial environments we advise the metal stainless steel (-BX) jacketing. It features a tensile strength of 950N. Some specifics on the jacketing can be found in the following technical information.

Contact us if you have any special conditions requirements.

Technical Data

Jacketing material	Kevlar reinforced PVC	Chrome plated brass (ME)	Stainless Steel (BX)	Silicon coated stainless steel (MS)
Inner Tubing	Polypropylene	Silicon/PTFE	Silicon/PTFE	Silicon/PTFE
Outer dimensions	3.8 mm	5.0 mm	6.0 mm	5.8 mm
Min. bending radius	18 mm	18 mm	35 mm	18 mm
Temperature Range	-20°C to +65°C	-65°C to +250°C	-65°C to +250°C	-60°C to +180°C
Tensile Strength	150 N	350 N	950 N	70 N
Application	Standard	Industrial	Heavy Industrial	Waterproof IP67

Ordering Information

- ME** • flexible chrome-plated brass outer jacket, with hooked profile
- BX** • Heavy industrial stainless steel jacket, with fully interlocking profile
- MS** • stainless steel spiral jacket with glassilk and gray outer silicon rubber coating

Standard



-MS



-ME



-BX



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