Crosslinked wire and cable products provide outstanding performance:
electron beam crosslinking of wire and cable products enhances strength, thermal stability, abrasion resistance, and environmental resistance.

Jacketed wire and cable products are treated by E-BEAM Services, Inc. to meet high-performance standards. Product designers increasingly create smaller footprint components running at higher temperatures and tougher conditions. Electron beamed wire and cable have improved temperature, abrasion and friction resistance.

Faster crosslink production and immediate readiness for use, enable E-BEAM crosslinked wire and cable to facilitate a fast to-market production schedule.

The efficient, high-energy electron-beam process enables E-BEAM Services to crosslink polymer molecules into a permanently altered three-dimensional configuration that improves performance characteristics without changing dimensional properties. The crosslinking process yields wire and cable products with higher tensile strength, chemical resistance, abrasion resistance, and improved thermal resistance at elevated temperatures.

Space-saving efficiency, weight restrictions, and adherence to safety codes make the cross-linking of jacketed wire and cable an ideal and economical choice for both small diameter, difficult-to-handle wire and large diameter cable products. E-BEAM Services, Inc. has processed cable up to and including 3” diameter. Crosslinked wire and cable have applications for use in automotive, communications, aircraft, marine cable, hookup wire, welding cable, and other industries.

E-BEAM crosslinking, unlike thermo-chemical crosslinking, does not limit jacketing materials, minimum wall thicknesses, or line speeds, and does not require the use of special equipment for hazardous chemicals or MSDS documentation. E-BEAM treated wire and cable products do not contain peroxide by-products or unreacted residuals. The E-BEAM crosslinking process is suitable for jacketing material made of PVC, ETFE, PVDF, polyolefin, HDPE, EPDM, CPE, Hypalon, EVA, Neoprene rubber, Nylon, polyamide, ethylene- propylene rubber and others.

Jacketed wire and cable is cross-linked in a high energy electron beam irradiation process by E-BEAM Services, Inc. to enhance structural performance characteristics that provide improved temperature, chemical, stress, and abrasion resistance for both small and wide diameter wire and cable.

**E-BEAM Services, Inc.**
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