

Fiber optic cable usage continues to grow in nuclear power plants. The advancement in optical fibers facilitate the use of fiber optic cables in harsh environments or mild environment radiation areas. In most legacy plants and all new reactors, fiber cables are deployed in control, instrument and communication circuits.

Fiber cables offer EMI and RFI resistance, small diameter, great bandwidth, low losses, light weight and other advantages compared with electrical cable. Coupled with advances in connectors and transceivers, fiber optic cable is often the economic choice for new and replacement systems.

We are now providing many fiber cables for safety-related applications. As a result, Prysmian has developed four new series of safety related fiber optic cables for nuclear. There are now 8 series of cables for the nuclear industry. They are:

Type	Flame Standards	Non-safety related	Safety related
Loose Tube	IEEE 1682, IEEE 1202	S5014	S5043L
Loose Tube	IEEE 1682, IEEE 1202, UL 1666	S781L	S5029L
Tight Buffer Breakout	IEEE 1682, IEEE 1202, UL 1666	S690T	S5024T
Tight Buffer Breakout	IEEE 1682, IEEE 1202, UL 1666, NFPA 262	S753T	S5030T

Safety and non-safety related cables are identical in design and performance - only the paperwork is different. Safety related cables can be fully audited upon demand; non-safety can also be audited but not all in-process information may be archived for long period as are required for safety related materials.

In addition to these cables, CableLAN also offers a complete range of fiber optic cables, including interlocked armored, direct buried, ADSS, distribution style and cables containing both electrical and fiber optic cables.

All Prysmian nuclear power plant cables are manufactured in our own facilities, which gives us in depth knowledge of the cable and its history.

CableLAN Nuclear is the exclusive supplier of Prysmian fiber optic cables to nuclear power plants around the world. Since 1979, we have provided fiber optic cable to nuclear power plants, and we were the first to supply safety related fiber optic cable almost 20 years ago.

Questions?



Want more information? Call us at 800-840-6655 or 508-384-7811 and talk to one of nuclear team members. You may also [email](#) us for more information.

CABLELAN LUNCH AND LEARNS



CableLAN Nuclear also offers Lunch and Learns about fiber optic, communication and electrical cables designed and qualified for nuclear power plants. These are about 1-hour presentations held at your offices, and they are FREE! We have given these programs for more than 15 years, and comments we have received are very positive.

Give CableLAN a call at 508-384-7811 or [email](#) me to learn more or set up a presentation for your company!