

# Prysmian Fire Rated System Cost Advantage



Prysmian Group brings the most cost effective fire rated cable options in the industry with its 2-hour fire-rated Lifeline® Metal Clad (MC) and Lifeline® RHW-2 circuit integrity (CI) cables. These cables are certified to the UL 2196 Standard, the most extreme and destructive fire test in the world. In contrast to mineral insulated (MI) cables, which use a layer of magnesium oxide to prevent the melting of the copper conductor, our cables use low smoke zero-halogen (LSZH) ceramifying silicone insulation, which forms a protective layer over the conductor when exposed to heat of more than 500°F.

Prysmian CI cables are not only more flexible and easier to install, but also cost significantly less than MI cables.



Figure 1: Lifeline® 2-hr Fire-rated MC Multiconductor



Figure 2: Lifeline® 2-hr Fire-rated RHW-2 in EMT Conduit

## Costs of 300' of 4/C 350kcmil Lifeline® MC and Lifeline® RHW-2 cables compared with MI Cables\*

| Cable Type         | Lifeline® RHW-2 + EMT | Lifeline® RHW-2 + FRE | Lifeline® MC       | MI                 |
|--------------------|-----------------------|-----------------------|--------------------|--------------------|
| Cable Cost         | \$26,000.00           | \$26,000.00           | \$40,000.00        | <b>\$50,000.00</b> |
| Conduit Cost       | \$600.00              | \$7,000.00            | —                  | —                  |
| Connector Cost     | —                     | —                     | \$600.00           | <b>\$800.00</b>    |
| Labor Cost/Hr*     | \$100.00              | \$100.00              | \$100.00           | \$100.00           |
| Labor Hours        | 11                    | 13                    | 10                 | <b>51</b>          |
| Total Labor Cost   | \$1,100.00            | \$1,300.00            | \$1,000.00         | <b>\$5,100.00</b>  |
| Termination Costs  | \$47.00               | \$47.00               | \$60.00            | <b>\$438.00</b>    |
| <b>Total Costs</b> | <b>\$27,747.00</b>    | <b>\$34,347.00</b>    | <b>\$41,660.00</b> | <b>\$56,338.00</b> |

\*All pricing estimates were compiled by Prysmian Group. Actual pricing varies based on location/project specifics.

*MI cables are length limited, difficult to splice and terminate, and can add days to your installation time. Why burn your time and money buying MI?*

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Cost savings are even greater with longer lengths, reducing splice points. See cost tables for 1000' and 3000' lengths:

| Costs of 1000' of 4/C 350kcmil Lifeline® MC and RHW-2 cables compared with MI Cables* |                       |                       |                     |                     |
|---|-----------------------|-----------------------|---------------------|---------------------|
| Cable Type  | Lifeline® RHW-2 + EMT | Lifeline® RHW-2 + FRE | Lifeline® MC        | MI                  |
| Cable Cost  | \$86,240.00           | \$86,240.00           | \$120,000.00        | <b>\$166,650.00</b> |
| Conduit Cost  | \$1,999.80            | \$23,331.00           | —                   | —                   |
| Connector Cost  | —                     | —                     | \$600.00            | <b>\$3,200.00</b>   |
| Labor Cost/Hr*  | \$100.00              | \$100.00              | \$100.00            | \$100.00            |
| Labor Hours   | 44                    | 52                    | 40                  | <b>204</b>          |
| Total Labor Cost  | \$4,400.00            | \$5,200.00            | \$4,000.00          | <b>\$20,400.00</b>  |
| Termination Costs   | \$47.00               | \$47.00               | \$60.00             | <b>\$1,752.00</b>   |
| <b>Total Costs</b>  | <b>\$92,686.80</b>    | <b>\$114,818.00</b>   | <b>\$124,660.00</b> | <b>\$192,002.00</b> |

| Costs of 3000' of 4/C 350kcmil Lifeline® MC and RHW-2 cables compared with MI Cables* |                       |                       |                     |                     |
|---|-----------------------|-----------------------|---------------------|---------------------|
| Cable Type  | Lifeline® RHW-2 + EMT | Lifeline® RHW-2 + FRE | Lifeline® MC        | MI                  |
| Cable Cost  | \$213,480.00          | \$213,480.00          | \$306,930.00        | <b>\$466,620.00</b> |
| Conduit Cost  | \$5,599.44            | \$65,326.80           | —                   | —                   |
| Connector Cost  | —                     | —                     | \$600.00            | <b>\$8,800.00</b>   |
| Labor Cost/Hr*  | \$100.00              | \$100.00              | \$100.00            | \$100.00            |
| Labor Hours   | 176                   | 208                   | 160                 | <b>816</b>          |
| Total Labor Cost  | \$17,600.00           | \$20,800.00           | \$16,000.00         | <b>\$81,600.00</b>  |
| Termination Costs   | \$47.00               | \$47.00               | \$60.00             | <b>\$7,008.00</b>   |
| <b>Total Costs</b>  | <b>\$236,726.44</b>   | <b>\$299,653.80</b>   | <b>\$323,590.00</b> | <b>\$564,028.00</b> |

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## Lifeline® MC Fire-rated Cables

- Multiconductor or Single Conductor
- 2-hour UL 2196 fire-rated FHIT Certification
- Terminates directly to equipment without the need to splice
- Self-contained raceway, no need to install conduit before pulling cable
- Armor meets Equipment Grounding Conductor requirements of NEC Table 250.122
- Reduce splices with installation in long lengths



## Lifeline® RHW-2 Cables

- Bundled single conductors
- Only 2-hour UL 2196 fire-rated FHIT Certified RHW-2 in the market
- Terminates directly to equipment without the need to splice
- Can be installed in both in electrical metal tubing (EMT) conduit or in Fiberglass Reinforced Epoxy (FRE) Conduit
- Cost effective pipe and wire installation

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