

# Pyrotenax vs. Competition

**Pyrotenax**

**Pyrotenax System 1850 Fire-Rated Wiring delivers superior performance for critical life safety circuits and is the only ULC-Listed 2-hour fire-rated system with no limitations!**

- 100% inorganic composition does not produce toxic gases or fuel fire when exposed to flame
- Increased ampacity vs. competition
- Requires less space vs. competition
- Superior mechanical strength vs. competition
- The trusted leader in mineral-insulated cable solutions since 1936 with over 30 million feet installed worldwide
- Lifetime warranty
- EcoVadis Gold Rating



## PYROTENAX VS. COMPETITION

	nVent PYROTENAX MI cable	Competitor 1 RC90 cable A	Competitor 1 RC90 cable B	Competitor 2 MI Cable	Competitor 3 R90/Conduit
UL Listing	FHIT7.1850	FHIT7.120	FHIT7.51	FHIT7.1083C	FHIT7.28E
ULC S139 Fire-Resistance Rating	2 hr @ 600V	2 hr @ 600V	2 hr @ 600V	2 hr @ 600V	2 hr @ 480V
Fire Testing Performance	No smoke, no fuel, tensile strength maintained	Toxic/flammable gasses, reduced tensile strength, special install required	Toxic/flammable gasses, reduced tensile strength	No smoke, no fuel	Toxic/flammable gasses, reduced tensile strength
Space & materials required to deliver 2160 Amps over 100 ft	Volume: 60.1 ft <sup>3</sup> Cable: 1800 ft Struts: 33.3 ft Threaded Rod: 27.8 ft	Volume: 138.7 ft <sup>3</sup> (+131%) Cable: 2400 ft (+33%) Struts: 90.1 ft (+171%) Threaded Rod: 44.0 ft (+58%)	Volume: 138.7 ft <sup>3</sup> (+131%) Cable: 2400 ft (+33%) Struts: 90.1 ft (+171%) Threaded Rod: 44.0 ft (+58%)	Volume: 60.1 ft <sup>3</sup> Cable: 1800 ft Struts: 33.3 ft Threaded Rod: 27.8 ft	Volume: 174.9 ft <sup>3</sup> (+191%) Cable: 4000 ft (+122%) Struts: 80.1 ft (+141%) Threaded Rod: 38.1 ft (+37%)
Outer Sheath	Solid copper	Corrugated copper	Corrugated copper	Solid copper	Polymeric jacket
Fire-Rated Field Splice	Yes	Only for 8 AWG – 750 kcmil	Only for 2 AWG – 750 kcmil	No	No – Fire Alarm Only
Fire-Rated Factory Splice	Yes	No	No	No	No
Physical Support Requirements	Supports every 6 ft, except 16, 18 AWG unshielded twisted pair (4 ft)	Supports every 4 ft	Supports every 4 ft	Supports every 4 ft for <4 AWG & 7-conductor <10 AWG; every 6 ft for sizes above	Supports every 5 ft in approved conduit (only one brand approved)
ULC S139 Approved Configurations Available	AWG / kcmil Sizes	AWG / kcmil Sizes	AWG / kcmil Sizes	AWG / kcmil Sizes	AWG / kcmil Sizes
1 Conductor:	10+, 8+, 6, 4, 3, 2, 1, 1/0, 2/0, 3/0, 4/0, 250, 350, 500	1/0, 2/0, 3/0, 4/0, 250, 350, 400, 500, 600, 750	1/0, 2/0, 3/0, 4/0, 250, 300, 350, 400, 500, 600, 750	10, 4, 3, 2, 1, 1/0, 2/0, 3/0, 4/0, 250, 350, 500	14, 12, 10, 8, 6, 4, 3, 2, 1, 1/0, 2/0, 3/0, 4/0, 250, 300, 350, 400, 500
2 Conductors:	16, 14, 12, 10, 8, 6, 4, 3, 2, 1	14, 12, 10, 8, 6	12, 10, 8, 6	10, 4, 3, 2, 1	
3 Conductors:	16, 14, 12, 10, 8, 6, 4, 3	14, 12, 10, 8, 6, 4, 3, 2, 1, 1/0, 2/0, 3/0, 4/0, 250, 350, 400, 500, 600	14, 12, 10, 8, 6, 4, 3, 2, 1, 1/0, 2/0, 3/0, 4/0, 250, 300, 350, 400, 500, 600	10, 4, 3	
4 Conductors:	16, 14, 12, 10, 8, 6	14, 12, 10, 8, 6, 4, 3, 2, 1, 1/0, 2/0, 3/0, 4/0, 250, 350, 400, 500	12, 10, 8, 6, 4, 3, 2, 1, 1/0, 2/0, 3/0, 4/0, 250, 300, 350, 400, 500, 600		
5 Conductors:		14, 12, 10, 8, 6, 4, 3, 2, 1, 1/0, 2/0, 3/0, 4/0	14, 12, 10, 8, 6, 4		
7 Conductors:	16, 14, 12, 10, 8	14, 12, 10, 8, 6	10	10	
Warranty	Lifetime	12 Months	12 Months	35 years	Defects only
Country of Manufacture	Canada	USA	USA	China	USA

### North America

Tel +1 800 545 6258  
info@chemelex.com

### Latin America

Tel +1 713 868 4800  
info@chemelex.com

### Europe, Middle East, Africa, India

Tel +32 16 213 511  
Fax +32 16 213 604  
info@chemelex.com

### Asia Pacific

Tel +86 21 2412 1688  
infoAPAC@chemelex.com



**Raychem Tracer Pyrotenax Nuheat**