



Draka
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INTRODUCING THE LOW- COST, EASY-TO-INSTALL

2-HOUR FIRE-RATED R90

DESCRIPTION

LIFELINE™ R90 is CSA certified single conductor conduit cable for use with Emergency Power, Fire Pumps, Elevators, Venting Fans and Fire Alarm Systems. When installed per the CANADIAN ELECTRICAL CODE Lifeline™ R90 meets the 1 and 2 hour fire rating requirements of the NATIONAL BUILDING CODE OF CANADA.

LIFELINE™ is a cost effective means for providing two hour fire protection as required for your most critical circuits. It replaces Mineral Insulated (MI) cable, concrete encasement or construction of unnecessary fire barriers as the optimum way to protect critical circuits against attack by fire and water.

Beyond the obvious economical advantage LIFELINE™ R90 can be installed in long lengths (using standard pull through fittings and labor rates), does NOT require special tools or connectors and (with proper planning) circuit expansion, replacement or resizing can readily be accomplished in the future.

LIFELINE™ R90

CSA CERTIFIED R90 POWER CABLE

ULC CLASSIFIED TWO-HOUR FIRE RATED
PER S-139 WITH HOSE STREAM
WHEN INSTALLED IN CONDUIT



FEATURES & BENEFITS

- Recognized 2 hour fire rating
- CSA certified as R90 power cable
- Low smoke and halogen free (LSHF)
- Installs in common 1/2" (or larger) conduit
- No special tools, connectors or procedures
- Available in long lengths on matched cable reels
- Physical protection provided by conduit
- Assured installed reliability

PERFORMANCE

- 2 hour fire rating per ULC S-139 @600 Volts and hose stream
- Exceeds National Building Code of Canada requirements for fire rating of cables in buildings (Subsection 3.2.6)
- Meets all requirements for thermosetting wires type R90 per CSA 38-95
- Additionally, Lifeline™ R90 has been qualified to UL 2196 *Standard for Tests of Fire Endurance Cables* and is listed as Electrical Circuit Protective System (FHIT) #25 of the UL Fire Resistance Directory



Call your LIFELINE™ friend at

800-333-4248 ext. 2600

Or visit us at www.drakausa.com/lifeline

Lifeline™ Part Number	Copper Size AWG MCM	Number of Strands	Insulation Thickness		Covering Thickness		Overall Diameter		Approximate Weight		Ampacity*		EMT Size*** For 3 conductors	EMT Size*** For 4 conductors
			In.	(mm)	In.	(mm)	In.	(mm)	Lbs/Mft	(kg/km)	90C NEC Amps †	85-90C CEC Amps ‡		
R90-14	14	7	0.045	(1.14)	0.015	(0.38)	0.197	(5.00)	30	(45)	15**	15	½"	¾"
R90-12	12	7	0.045	(1.14)	0.015	(0.38)	0.216	(5.49)	40	(60)	20**	20	½"	¾"
R90-10	10	7	0.045	(1.14)	0.015	(0.38)	0.248	(6.30)	56	(83)	30**	30	¾"	¾"
R90-8	8	7	0.060	(1.52)	0.030	(0.76)	0.337	(8.56)	97	(144)	55	45	1"	1¼"
R90-6	6	7	0.060	(1.52)	0.030	(0.76)	0.369	(9.37)	135	(201)	75	65	1"	1¼"
R90-4	4	7	0.060	(1.52)	0.030	(0.76)	0.418	(10.62)	193	(287)	95	85	1¼"	1¼"
R90-3	3	7	0.060	(1.52)	0.030	(0.76)	0.445	(11.30)	233	(347)	110	105	1¼"	1½"
R90-2	2	7	0.060	(1.52)	0.030	(0.76)	0.478	(12.14)	283	(421)	130	120	1¼"	1½"
R90-1	1	19	0.080	2.03	0.045	(1.14)	0.590	(14.99)	389	(579)	150	140	2"	2"
R90-1/0	1/0	19	0.080	2.03	0.045	(1.14)	0.631	(16.03)	471	(701)	170	155	2"	2"
R90-2/0	2/0	19	0.080	(2.03)	0.045	(1.14)	0.674	(17.12)	571	(850)	195	185	2"	2½"
R90-3/0	3/0	19	0.080	(2.03)	0.045	(1.14)	0.725	(18.42)	700	(1042)	225	210	2"	2½"
R90-4/0	4/0	19	0.080	(2.03)	0.045	(1.14)	0.780	(19.81)	855	(1272)	260	235	2½"	2½"
R90-250	250	37	0.095	2.41	0.065	(1.65)	0.896	(22.76)	1070	(1592)	290	265	2½"	3"
R90-350	350	37	0.095	2.41	0.065	(1.65)	1.005	(25.5)	1380	(2054)	350	325	3"	3"
R90-500	500	37	0.095	2.41	0.065	(1.65)	1.131	(28.7)	1890	(2813)	430	395	3"	3½"

Install per UL Electrical Circuit Protective System (FHIT) #25 and all provisions of the applicable codes

† 2002 Nation Electrical Code (NFPA 70)

‡ 2002 Canadian Electrical Code (C22.1-02)

*Ampacity based on three current carrying conductors in a conduit and 30°C (88°F) ambient temperature

** See National Electrical Code, section 240-3

***Electrical Metallic Tubing (EMT) per NFPA 70. For rigid metal conduit see NFPA 70, Chapter 9 or other applicable code

Note: Table does not take voltage drop into consideration

LIFELINE™ R90 JACKET PRINT LEGEND

DRAKA USA LIFELINE R90 250 KCMIL CSA R90 SIL (-25C) 600V FT1 LL36970

2 HOUR ULC S-139 600V HOSE STREAM CR2855

Canada

For more information, call your LIFELINE™ friend at 1-800-333-4248 ext. 2600