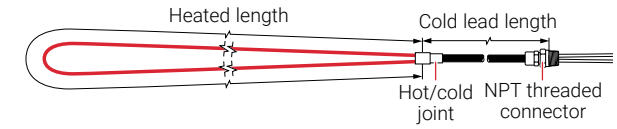
MI HEATING CABLE

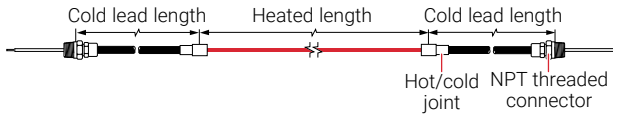
COPPER AND LSZH JACKETED COPPER SHEATHED MI CABLE FOR HEAT LOSS REPLACEMENT, FLOOR HEATING AND RADIANT SPACE HEATING

MI Heating Cable Configuration

Type SUA
Design A



Type SUB, HLR and FH
Design B



10 YEAR Product warranty

PRODUCT OVERVIEW

Heat-loss replacement – replaces heat in concrete floors built over garages, loading docks, arcades, and other cold spaces. The cable is typically attached to the bottom of concrete floors.

Comfort floor heating – warms concrete, tile, stone and marble floors in lobbies, foyers, bathrooms, kitchens and gymnasiums. The cable is typically embedded in concrete or a thick mortar bed.

Radiant space heating – provides primary space heating for rooms with concrete floors. The cable is typically embedded in concrete or a thick mortar bed.

Type HLR heating cables are supplied with a copper sheath and are ideally suited for heat loss replacement applications. Types SUA, SUB and FH heating cables have a copper sheath that is covered with an extruded low-smoke zero-halogen (LSZH) jacket and are suitable for applications where the cable is directly embedded in concrete or mortar floors.

The heating cables are factory assembled with an LSZH jacketed copper sheath cold lead, pre-terminated and ready to connect to a junction box. The copper sheath provides an ideal ground path and allows for a rugged yet flexible heating cable that is easy to install.

The radiant heat provided by the nVent RAYCHEM heating cable allows you to feel comfortable at lower air temperatures, resulting in lower heating costs.

Thermal Management representatives can provide design assistance and help you install the product that meets your goals for an efficient, cost-effective floor heating system.

CABLE CONSTRUCTION

Type HLR heating cable

Sheath	Seamless copper
Insulation	Magnesium oxide
Conductor type	Alloy or copper
Number of conductors	1
Insulation voltage rating	600 V
Cable diameter (without jacket)	0.120 to 0.205 in (3.0 to 5.2 mm)

CABLE CONSTRUCTION

Types SUA, SUB and FH heating cable

Jacket	LSZH
Sheath	Seamless copper
Insulation	Magnesium oxide
Conductor type	Alloy or copper
Number of conductors	1
Insulation voltage rating	600 V
Cable diameter (with jacket)	0.200 to 0.303 in (5.1 to 7.7 mm)

Cold lead (Type SUA/SUB/HLR/FH cables)

Jacket	LSZH
Sheath	Seamless copper
Insulation	Magnesium oxide
Conductor type	Copper
Number of conductors	1 or 2
Insulation voltage rating	600 V
Cable diameter (with jacket)	0.310 to 0.420 in (7.9 to 10.7 mm)
Gland size (NPT)	1/2 in
Tail length	12 in (30 mm)

MINIMUM INSTALLATION TEMPERATURE

−22°F (−30°C)

MINIMUM BENDING RADIUS

6 times cable diameter

TYPE HLR - HEAT LOSS REPLACEMENT CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length (ft)	(m)	Nominal power (watts)	Cable voltage (volts)	Cold lead length [1] (ft)	(m)	Cold lead code	Joint type	Nominal cable diameter (in)	(mm)	Resis-tance [2] (ohms)	Tail size (AWG)
120 Volts and 208 Volts, 3-phase Wye														
HLR1	B	61CD3610	70	21.3	330	120	15	4.6	R25A	Y	0.120	3.0	43.6	14
HLR2	B	61CD3610	44	13.4	540	120	15	4.6	R25A	Y	0.120	3.0	26.7	14
HLR3	B	61CD3390	55	16.8	670	120	15	4.6	R25A	Y	0.132	3.4	21.5	14
HLR4	B	61CD3300	63	19.2	760	120	15	4.6	R25A	Y	0.160	4.1	18.9	14
HLR5	B	61CD3200	77	23.5	935	120	15	4.6	R25A	Y	0.168	4.3	15.4	14
HLR6	B	61CE3150	89	27.1	1080	120	15	4.6	R25A	Y	0.148	3.8	13.3	14
HLR7	B	61CE3105	106	32.3	1295	120	15	4.6	R25A	Y	0.174	4.4	11.1	14
HLR8	B	61CE4800	122	37.2	1475	120	15	4.6	R25A	Y	0.182	4.6	9.8	14
HLR9	B	61CE4600	140	42.7	1715	120	15	4.6	R25A	Y	0.194	4.9	8.4	14
HLR10	B	61CE4400	172	52.4	2100	120	15	4.6	R25A	Y	0.185	4.7	6.9	14
HLR11	B	61CE4300	198	60.4	2425	120	15	4.6	R25A	Y	0.192	4.9	5.9	14
HLR12	B	61CE4200	244	74.4	2950	120	15	4.6	R30A	Y	0.205	5.2	4.9	12
HLR13	B	61CC4100	322	98.2	3925	120	15	4.6	R40A	Y	0.198	5.0	3.7	10

[1] To modify cold lead length, contact your nVent sales representative.

[2] Resistance tolerance: +/− 10%
Tolerance on heating cable length: −0% to +3%

TYPE HLR - HEAT LOSS REPLACEMENT CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length (ft)	(m)	Nominal power (watts)	Cable voltage (volts)	Cold lead length [1] (ft)	(m)	Cold lead code	Joint type	Nominal cable diameter (in)	(mm)	Resis-tance [2] (ohms)	Tail size (AWG)
208 Volts														
HLR14	B	61CD3610	76	23.2	935	208	15	4.6	R25A	Y	0.120	3.0	46.3	14
HLR15	B	61CD3390	95	29.0	1170	208	15	4.6	R25A	Y	0.132	3.4	37.0	14
HLR16	B	61CD3300	109	33.2	1325	208	15	4.6	R25A	Y	0.160	4.1	32.7	14
HLR17	B	61CD3200	133	40.5	1625	208	15	4.6	R25A	Y	0.168	4.3	26.6	14
HLR18	B	61CE3150	154	47.0	1875	208	15	4.6	R25A	Y	0.148	3.8	23.1	14
HLR19	B	61CE3105	184	56.1	2240	208	15	4.6	R25A	Y	0.174	4.4	19.3	14
HLR20	B	61CE4800	211	64.3	2565	208	15	4.6	R25A	Y	0.182	4.6	16.9	14
HLR21	B	61CE4600	243	74.1	2970	208	15	4.6	R25A	Y	0.194	4.9	14.6	14
HLR22	B	61CE4400	296	90.2	3655	208	15	4.6	R25A	Y	0.185	4.7	11.8	14
HLR23	B	61CE4300	345	105.2	4180	208	15	4.6	R25A	Y	0.192	4.9	10.4	14
HLR24	B	61CE4200	420	128.0	5150	208	15	4.6	R30A	Y	0.205	5.2	8.4	12
HLR25	B	61CC4100	560	170.7	6780	208	15	4.6	R40A	Y	0.198	5.0	6.4	10
240 Volts														
HLR26	B	61CD3610	88	26.8	1075	240	15	4.6	R25A	Y	0.120	3.0	53.6	14
HLR27	B	61CD3390	110	33.5	1345	240	15	4.6	R25A	Y	0.132	3.4	42.8	14
HLR28	B	61CD3300	125	38.1	1535	240	15	4.6	R25A	Y	0.160	4.1	37.5	14
HLR29	B	61CD3200	153	46.6	1880	240	15	4.6	R25A	Y	0.168	4.3	30.6	14
HLR30	B	61CE3150	177	54.0	2170	240	15	4.6	R25A	Y	0.148	3.8	26.5	14
HLR31	B	61CE3105	212	64.6	2590	240	15	4.6	R25A	Y	0.174	4.4	22.2	14
HLR32	B	61CE4800	243	74.1	2965	240	15	4.6	R25A	Y	0.182	4.6	19.4	14
HLR33	B	61CE4600	280	85.4	3430	240	15	4.6	R25A	Y	0.194	4.9	16.8	14
HLR34	B	61CE4400	345	105.2	4175	240	15	4.6	R25A	Y	0.185	4.7	13.8	14
HLR35	B	61CE4300	395	120.4	4860	240	15	4.6	R25A	Y	0.192	4.9	11.9	14
HLR36	B	61CE4200	485	147.9	5940	240	15	4.6	R30A	Y	0.205	5.2	9.7	12
HLR37	B	61CC4100	640	195.1	7900	240	15	4.6	R40A	Y	0.198	5.0	7.3	10
277 Volts and 480 Volts, 3-phase Wye														
HLR38	B	61CD3610	102	31.1	1235	277	15	4.6	R25A	Y	0.120	3.0	62.1	14
HLR39	B	61CD3390	127	38.7	1550	277	15	4.6	R25A	Y	0.132	3.4	49.5	14
HLR40	B	61CD3300	145	44.2	1765	277	15	4.6	R25A	Y	0.160	4.1	43.5	14
HLR41	B	61CD3200	177	54.0	2170	277	15	4.6	R25A	Y	0.168	4.3	35.4	14
HLR42	B	61CE3150	205	62.5	2495	277	15	4.6	R25A	Y	0.148	3.8	30.8	14
HLR43	B	61CE3105	245	74.7	2985	277	15	4.6	R25A	Y	0.174	4.4	25.7	14
HLR44	B	61CE4800	280	85.4	3425	277	15	4.6	R25A	Y	0.182	4.6	22.4	14
HLR45	B	61CE4600	325	99.1	3935	277	15	4.6	R25A	Y	0.194	4.9	19.5	14
HLR46	B	61CE4400	396	120.7	4845	277	15	4.6	R25A	Y	0.185	4.7	15.8	14
HLR47	B	61CE4300	460	140.2	5560	277	15	4.6	R25A	Y	0.192	4.9	13.8	14
HLR48	B	61CE4200	560	170.7	6850	277	15	4.6	R30A	Y	0.205	5.2	11.2	12
HLR49	B	61CC4100	740	225.6	9100	277	15	4.6	R40A	Y	0.198	5.0	8.4	10

[1] To modify cold lead length, contact your nVent sales representative.

[2] Resistance tolerance: +/– 10%
Tolerance on heating cable length: –0% to +3%

TYPE HLR - HEAT LOSS REPLACEMENT CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length (ft)	(m)	Nominal power (watts)	Cable voltage (volts)	Cold lead length [1] (ft)	(m)	Cold lead code	Joint type	Nominal cable diameter (in)	(mm)	Resis-tance [2] (ohms)	Tail size (AWG)
347 Volts and 600 Volts, 3-phase Wye														
HLR50	B	61CD3610	127	38.7	1560	347	15	4.6	R25A	Y	0.120	3.0	77.2	14
HLR51	B	61CD3390	160	48.8	1930	347	15	4.6	R25A	Y	0.132	3.4	62.4	14
HLR52	B	61CD3300	182	55.5	2205	347	15	4.6	R25A	Y	0.160	4.1	54.6	14
HLR53	B	61CD3200	222	67.7	2715	347	15	4.6	R25A	Y	0.168	4.3	44.3	14
HLR54	B	61CE3150	258	78.7	3110	347	15	4.6	R25A	Y	0.148	3.8	38.7	14
HLR55	B	61CE3105	306	93.3	3750	347	15	4.6	R25A	Y	0.174	4.4	32.1	14
HLR56	B	61CE4800	350	106.7	4300	347	15	4.6	R25A	Y	0.182	4.6	28.0	14
HLR57	B	61CE4600	405	123.5	4955	347	15	4.6	R25A	Y	0.194	4.9	24.3	14
HLR58	B	61CE4400	495	150.9	6080	347	15	4.6	R25A	Y	0.185	4.7	19.8	14
HLR59	B	61CE4300	575	175.3	6980	347	15	4.6	R25A	Y	0.192	4.9	17.3	14
HLR60	B	61CE4200	700	213.4	8600	347	15	4.6	R30A	Y	0.205	5.2	14.0	12
480 Volts														
HLR61	B	61CD3610	175	53.4	2160	480	15	4.6	R25A	Y	0.120	3.0	106.7	14
HLR62	B	61CD3390	220	67.1	2685	480	15	4.6	R25A	Y	0.132	3.4	85.8	14
HLR63	B	61CD3300	250	76.2	3070	480	15	4.6	R25A	Y	0.160	4.1	75.0	14
HLR64	B	61CD3200	306	93.3	3770	480	15	4.6	R25A	Y	0.168	4.3	61.1	14
HLR65	B	61CE3150	355	108.2	4330	480	15	4.6	R25A	Y	0.148	3.8	53.2	14
HLR66	B	61CE3105	424	129.3	5175	480	15	4.6	R25A	Y	0.174	4.4	44.5	14
HLR67	B	61CE4800	485	147.9	5940	480	15	4.6	R25A	Y	0.182	4.6	38.8	14
HLR68	B	61CE4600	560	170.7	6860	480	15	4.6	R25A	Y	0.194	4.9	33.6	14
HLR69	B	61CE4400	690	210.4	8350	480	15	4.6	R25A	Y	0.185	4.7	27.6	14
600 Volts														
HLR70	B	61CD3610	220	67.1	2685	600	15	4.6	R25A	Y	0.120	3.0	134.1	14
HLR71	B	61CD3390	275	83.8	3360	600	15	4.6	R25A	Y	0.132	3.4	107.1	14
HLR72	B	61CD3300	313	95.4	3835	600	15	4.6	R25A	Y	0.160	4.1	93.9	14
HLR73	B	61CD3200	384	117.1	4690	600	15	4.6	R25A	Y	0.168	4.3	76.8	14
HLR74	B	61CE3150	443	135.1	5420	600	15	4.6	R25A	Y	0.148	3.8	66.4	14
HLR75	B	61CE3105	530	161.6	6470	600	15	4.6	R25A	Y	0.174	4.4	55.6	14
HLR76	B	61CE4800	605	184.5	7440	600	15	4.6	R25A	Y	0.182	4.6	48.4	14
HLR77	B	61CE4600	700	213.4	8570	600	15	4.6	R25A	Y	0.194	4.9	42.0	14

[1] To modify cold lead length, contact your nVent sales representative.

[2] Resistance tolerance: +/– 10%
Tolerance on heating cable length: –0% to +3%

TYPE SUA/SUB - FLOOR HEATING AND RADIANT SPACE HEATING CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length (ft)	(m)	Nominal power (watts)	Cable voltage (volts)	Cold lead length [1] (ft)	(m)	Cold lead code	Joint type	Nominal cable diameter (in)	(mm)	Resis-tance [2] (ohms)	Tail size (AWG)
120 Volts and 208 Volts, 3-phase Wye														
SUA2	A	61RD3610-RD	55	16.8	425	120	7	2.1	R22A	Y	0.200	5.1	33.6	14
SUA3	A	61RD3200-RD	140	42.7	500	120	7	2.1	R22A	Y	0.248	6.3	28.0	14
SUA4	A	61RD3390-RD	68	20.7	550	120	7	2.1	R22A	Y	0.212	5.4	26.5	14
SUA7	A	61RD3200-RD	95	29.0	750	120	7	2.1	R22A	Y	0.248	6.3	19.0	14
SUA8	A	61RE3105-RD	177	54.0	800	120	7	2.1	R22A	Y	0.254	6.5	18.6	14
SUB1	B	61RE3105-RD	132	40.2	1000	120	15	4.6	R25A	Y	0.254	6.5	13.9	14
SUB2	B	61RE4600-RD	240	73.2	1000	120	15	4.6	R25A	Y	0.274	7.0	14.4	14
SUB3	B	61RE4400-RD	280	85.4	1300	120	15	4.6	R30A	Y	0.265	6.7	11.2	12
SUB4	B	61RE4300-RD	320	97.6	1500	120	15	4.6	R30A	Y	0.272	6.9	9.6	12
SUB5	B	61RE4300-RD	260	79.3	1800	120	15	4.6	R40A	Y	0.272	6.9	7.8	10
SUB6	B	61RE4200-RD	375	114.3	1900	120	15	4.6	R40A	Y	0.285	7.2	7.5	10
SUB7	B	61RE4200-RD	310	94.5	2300	120	15	4.6	R40A	Y	0.285	7.2	6.2	10
SUB8	B	61RC4100-RD	550	167.7	2300	120	15	4.6	R60A	Y	0.278	7.1	6.3	8
SUB9	B	61RC5651-RD	630	192.1	3000	120	15	4.6	R60A	Y	0.274	7.0	4.7	8
SUB10	B	61RC5409-RD	717	218.6	4300	120	15	4.6	R80A	Y	0.303	7.7	3.3	6
208 Volts														
SUA1	A	61RD3610-RD	108	32.9	650	208	7	2.1	R22A	Y	0.200	5.1	65.9	14
SUA6	A	61RE3105-RD	264	80.5	1650	208	7	2.1	R22A	Y	0.254	6.5	27.7	14
SUB19	B	61RD3200-RD	245	74.7	885	208	15	4.6	R25A	Y	0.248	6.3	49.0	14
SUB20	B	61RE3105-RD	340	103.7	1210	208	15	4.6	R25A	Y	0.254	6.5	35.7	14
SUB21	B	61RE4600-RD	440	134.1	1640	208	15	4.6	R25A	Y	0.274	7.0	26.4	14
SUB22	B	61RE4400-RD	525	160.1	2060	208	15	4.6	R25A	Y	0.265	6.7	21.0	14
240 Volts														
SUA1	A	61RD3610-RD	108	32.9	900	240	7	2.1	R22A	Y	0.200	5.1	65.9	14
SUA6	A	61RE3105-RD	264	80.5	2100	240	7	2.1	R22A	Y	0.254	6.5	27.7	14
SUB19	B	61RD3200-RD	245	74.7	1175	240	15	4.6	R25A	Y	0.248	6.3	49.0	14
SUB20	B	61RE3105-RD	340	103.7	1615	240	15	4.6	R25A	Y	0.254	6.5	35.7	14
SUB21	B	61RE4600-RD	440	134.1	2180	240	15	4.6	R25A	Y	0.274	7.0	26.4	14
SUB22	B	61RE4400-RD	525	160.1	2745	240	15	4.6	R25A	Y	0.265	6.7	21.0	14
277 Volts and 480 Volts, 3-phase Wye														
SUB19	B	61RD3200-RD	245	74.7	1565	277	15	4.6	R25A	Y	0.248	6.3	49.0	14
SUB20	B	61RE3105-RD	340	103.7	2150	277	15	4.6	R25A	Y	0.254	6.5	35.7	14
SUB21	B	61RE4600-RD	440	134.1	2900	277	15	4.6	R25A	Y	0.274	7.0	26.4	14
SUB22	B	61RE4400-RD	525	160.1	3650	277	15	4.6	R25A	Y	0.265	6.7	21.0	14
347 Volts and 600 Volts, 3-phase Wye														
SUB11	B	61RD3390-RD	225	68.6	1400	347	15	4.6	R25A	Y	0.212	5.4	87.8	14
SUB12	B	61RD3200-RD	310	94.5	1950	347	15	4.6	R25A	Y	0.248	6.3	62.0	14
SUB13	B	61RE3105-RD	428	130.5	2700	347	15	4.6	R25A	Y	0.254	6.5	44.9	14
SUB14	B	61RE4600-RD	548	167.1	3700	347	15	4.6	R25A	Y	0.274	7.0	32.9	14

[1] To modify cold lead length, contact your nVent sales representative.

[2] Resistance tolerance: +/– 10%
Tolerance on heating cable length: –0% to +3%

TYPE FH - FLOOR HEATING AND RADIANT SPACE HEATING CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length (ft)	Heated length (m)	Nominal power (watts)	Cable voltage (volts)	Cold lead length[1] (ft)	Cold lead length[1] (m)	Cold lead code	Joint type	Nominal cable diameter (in)	Nominal cable diameter (mm)	Resis-tance[2] (ohms)	Tail size (AWG)
120 Volts and 208 Volts, 3-phase Wye														
FH1	B	61RD3610-RD	54	16.5	440	120	15	4.6	R25A	Y	0.200	5.1	32.9	14
FH2	B	61RD3390-RD	68	20.7	545	120	15	4.6	R25A	Y	0.212	5.4	26.5	14
FH3	B	61RD3300-RD	77	23.5	625	120	15	4.6	R25A	Y	0.240	6.1	23.1	14
FH4	B	61RD3200-RD	95	29.0	760	120	15	4.6	R25A	Y	0.248	6.3	19.0	14
FH5	B	61RE3150-RD	109	33.2	880	120	15	4.6	R25A	Y	0.228	5.8	16.4	14
FH6	B	61RE3105-RD	130	39.6	1055	120	15	4.6	R25A	Y	0.254	6.5	13.7	14
FH7	B	61RE4800-RD	150	45.7	1200	120	15	4.6	R25A	Y	0.262	6.7	12.0	14
FH8	B	61RE4600-RD	173	52.7	1390	120	15	4.6	R25A	Y	0.274	7.0	10.4	14
FH9	B	61RE4400-RD	210	64.0	1715	120	15	4.6	R25A	Y	0.265	6.7	8.4	14
FH10	B	61RE4300-RD	245	74.7	1960	120	15	4.6	R25A	Y	0.272	6.9	7.4	14
FH11	B	61RE4200-RD	300	91.5	2400	120	15	4.6	R25A	Y	0.285	7.2	6.0	14
208 Volts														
FH12	B	61RD3610-RD	94	28.7	755	208	15	4.6	R25A	Y	0.200	5.1	57.3	14
FH13	B	61RD3390-RD	118	36.0	940	208	15	4.6	R25A	Y	0.212	5.4	46.0	14
FH14	B	61RD3300-RD	134	40.9	1075	208	15	4.6	R25A	Y	0.240	6.1	40.2	14
FH15	B	61RD3200-RD	164	50.0	1320	208	15	4.6	R25A	Y	0.248	6.3	32.8	14
FH16	B	61RE3150-RD	190	57.9	1520	208	15	4.6	R25A	Y	0.228	5.8	28.5	14
FH17	B	61RE3105-RD	225	68.6	1830	208	15	4.6	R25A	Y	0.254	6.5	23.6	14
FH18	B	61RE4800-RD	260	79.3	2080	208	15	4.6	R25A	Y	0.262	6.7	20.8	14
FH19	B	61RE4600-RD	300	91.5	2400	208	15	4.6	R25A	Y	0.274	7.0	18.0	14
FH20	B	61RE4400-RD	365	111.3	2960	208	15	4.6	R25A	Y	0.265	6.7	14.6	14
FH21	B	61RE4300-RD	425	129.6	3390	208	15	4.6	R25A	Y	0.272	6.9	12.8	14
FH22	B	61RE4200-RD	520	158.5	4160	208	15	4.6	R25A	Y	0.285	7.2	10.4	14
240 Volts														
FH23	B	61RD3610-RD	108	32.9	875	240	15	4.6	R25A	Y	0.200	5.1	65.9	14
FH24	B	61RD3390-RD	135	41.2	1095	240	15	4.6	R25A	Y	0.212	5.4	52.7	14
FH25	B	61RD3300-RD	155	47.3	1240	240	15	4.6	R25A	Y	0.240	6.1	46.5	14
FH26	B	61RD3200-RD	190	57.9	1515	240	15	4.6	R25A	Y	0.248	6.3	38.0	14
FH27	B	61RE3150-RD	215	65.5	1785	240	15	4.6	R25A	Y	0.228	5.8	32.3	14
FH28	B	61RE3105-RD	260	79.3	2110	240	15	4.6	R25A	Y	0.254	6.5	27.3	14
FH29	B	61RE4800-RD	300	91.5	2400	240	15	4.6	R25A	Y	0.262	6.7	24.0	14
FH30	B	61RE4600-RD	345	105.2	2780	240	15	4.6	R25A	Y	0.274	7.0	20.7	14
FH31	B	61RE4400-RD	420	128.0	3430	240	15	4.6	R25A	Y	0.265	6.7	16.8	14
FH32	B	61RE4300-RD	490	149.4	3920	240	15	4.6	R25A	Y	0.272	6.9	14.7	14
FH33	B	61RE4200-RD	600	182.9	4800	240	15	4.6	R25A	Y	0.285	7.2	12.0	14

[1] To modify cold lead length, contact your nVent sales representative.

[2] Resistance tolerance: +/– 10%
Tolerance on heating cable length: –0% to +3%

TYPE FH - FLOOR HEATING AND RADIANT SPACE HEATING CABLE SPECIFICATIONS

Catalog number	Config-uration	Heating cable reference	Heated length (ft)	Heated length (m)	Nominal power (watts)	Cable voltage (volts)	Cold lead length [1] (ft)	Cold lead length [1] (m)	Cold lead code	Joint type	Nominal cable diameter (in)	Nominal cable diameter (mm)	Resis-tance [2] (ohms)	Tail size (AWG)
277 Volts and 480 Volts, 3-phase Wye														
FH34	B	61RD3610-RD	125	38.1	1005	277	15	4.6	R25A	Y	0.200	5.1	76.3	14
FH35	B	61RD3390-RD	155	47.3	1270	277	15	4.6	R25A	Y	0.212	5.4	60.5	14
FH36	B	61RD3300-RD	178	54.3	1440	277	15	4.6	R25A	Y	0.240	6.1	53.4	14
FH37	B	61RD3200-RD	218	66.5	1760	277	15	4.6	R25A	Y	0.248	6.3	43.6	14
FH38	B	61RE3150-RD	253	77.1	2020	277	15	4.6	R25A	Y	0.228	5.8	38.0	14
FH39	B	61RE3105-RD	300	91.5	2435	277	15	4.6	R25A	Y	0.254	6.5	31.5	14
FH40	B	61RE4800-RD	345	105.2	2780	277	15	4.6	R25A	Y	0.262	6.7	27.6	14
FH41	B	61RE4600-RD	400	122.0	3200	277	15	4.6	R25A	Y	0.274	7.0	24.0	14
FH42	B	61RE4400-RD	490	149.4	3915	277	15	4.6	R25A	Y	0.265	6.7	19.6	14
FH43	B	61RE4300-RD	564	172.0	4535	277	15	4.6	R25A	Y	0.272	6.9	16.9	14
FH44	B	61RE4200-RD	690	210.4	5560	277	15	4.6	R25A	Y	0.285	7.2	13.8	14
347 Volts and 600 Volts, 3-phase Wye														
FH45	B	61RD3610-RD	155	47.3	1275	347	15	4.6	R25A	Y	0.200	5.1	94.6	14
FH46	B	61RD3390-RD	195	59.5	1585	347	15	4.6	R25A	Y	0.212	5.4	76.1	14
FH47	B	61RD3300-RD	220	67.1	1825	347	15	4.6	R25A	Y	0.240	6.1	66.0	14
FH48	B	61RD3200-RD	270	82.3	2230	347	15	4.6	R25A	Y	0.248	6.3	54.0	14
FH49	B	61RE3150-RD	315	96.0	2550	347	15	4.6	R25A	Y	0.228	5.8	47.3	14
FH50	B	61RE3105-RD	376	114.6	3050	347	15	4.6	R25A	Y	0.254	6.5	39.5	14
FH51	B	61RE4800-RD	430	131.1	3500	347	15	4.6	R25A	Y	0.262	6.7	34.4	14
FH52	B	61RE4600-RD	497	151.5	4040	347	15	4.6	R25A	Y	0.274	7.0	29.8	14
FH53	B	61RE4400-RD	610	186.0	4935	347	15	4.6	R25A	Y	0.265	6.7	24.4	14
FH54	B	61RE4300-RD	710	216.5	5650	347	15	4.6	R25A	Y	0.272	6.9	21.3	14
480 Volts														
FH55	B	61RD3610-RD	215	65.5	1760	480	15	4.6	R25A	Y	0.200	5.1	131.2	14
FH56	B	61RD3390-RD	270	82.3	2190	480	15	4.6	R25A	Y	0.212	5.4	105.3	14
FH57	B	61RD3300-RD	310	94.5	2480	480	15	4.6	R25A	Y	0.240	6.1	93.0	14
FH58	B	61RD3200-RD	380	115.9	3030	480	15	4.6	R25A	Y	0.248	6.3	76.0	14
FH59	B	61RE3150-RD	435	132.6	3530	480	15	4.6	R25A	Y	0.228	5.8	65.3	14
FH60	B	61RE3105-RD	520	158.5	4220	480	15	4.6	R25A	Y	0.254	6.5	54.6	14
FH61	B	61RE4800-RD	600	182.9	4800	480	15	4.6	R25A	Y	0.262	6.7	48.0	14
FH62	B	61RE4600-RD	690	210.4	5565	480	15	4.6	R25A	Y	0.274	7.0	41.4	14
600 Volts														
FH63	B	61RD3610-RD	270	82.3	2185	600	15	4.6	R25A	Y	0.200	5.1	164.7	14
FH64	B	61RD3390-RD	340	103.7	2715	600	15	4.6	R25A	Y	0.212	5.4	132.6	14
FH65	B	61RD3300-RD	385	117.4	3120	600	15	4.6	R25A	Y	0.240	6.1	115.5	14
FH66	B	61RD3200-RD	470	143.3	3830	600	15	4.6	R25A	Y	0.248	6.3	94.0	14
FH67	B	61RE3150-RD	545	166.2	4400	600	15	4.6	R25A	Y	0.228	5.8	81.8	14
FH68	B	61RE3105-RD	650	198.2	5275	600	15	4.6	R25A	Y	0.254	6.5	68.3	14

[1] To modify cold lead length, contact your nVent sales representative.

[2] Resistance tolerance: +/– 10%
Tolerance on heating cable length: –0% to +3%

APPROVALS

Note: For heat loss replacement applications where the cable is attached to the bottom of the concrete floor, contact nVent for additional information.

GROUND-FAULT PROTECTION

To minimize the danger of fire from sustained electrical arcing if the heating cable is damaged or improperly installed, and to comply with the requirements of nVent, agency certifications, and national electrical codes, ground-fault equipment protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Many nVent RAYCHEM control and monitoring systems meet the ground-fault protection requirement.

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