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MICROFLEX®

HeatLoss Technical Data Sheet

Heat Loss in Microflex Insulated PEX carrier pipes is occurring when there is a difference between the average medium temperature and the surrounding environment temperature. In the tables below ΔT denominates the difference between these to temperatures. Heat Loss can thereby be expressed as BTU/h per ft of pipe or per degree Fahrenheit.

Microflex UNO Single Carrier Pipes

ΔT [°F]	18	36	54	72	90	108	126	144	162	180	BTUH/ ft.°F
M751C	2.43	4.6	6.8	9	11.8	14.2	17.1	19.2	22	24.2	0.121
M12540C	2.1	4.3	6.6	8.7	11.8	14.0	16.8	19.0	21.2	23.8	0.121
M12550C	2.5	5.3	8.2	11.4	14.2	17.8	20.5	23.5	26.1	29.4	0.149
M12563C	3.7	7.5	11.8	16.1	20.2	24.1	27.8	31.7	35.6	39.9	0.201
M16040C	2.2	3.8	5.5	7.5	9.5	11.8	14	15.8	17.8	19.7	0.097
M16050C	2.4	4.5	6.7	8.7	11.2	13.5	16.1	18.3	20.8	23.0	0.115
M16063C	2.7	5.7	8.4	11.7	15	17.8	20.6	23	25.5	29.0	0.146
M16075C	3.0	6.7	10.4	14.2	18.2	21.9	25.7	29.0	32.2	36.4	0.186
M20090C	3.2	6.8	9.9	13.7	17.2	20.4	24.1	27.3	30.3	34.1	0.172
M200110C	4.3	8.9	13.8	18.6	23	27.70	32.4	37	41.8	46.47	0.234

Table 8: UNO heat loss data

Microflex DUO Carrier Pipes

ΔT [°F]	18	36	54	72	90	108	126	144	162	180	BTUH/ ft.°F
MD1251C	3.33	6.55	9.88	13.52	17.16	20.49	23.92	27.25	30.47	34.03	0.171
MD12532C	3.43	7.28	11.13	15.08	18.72	22.88	26.42	29.85	33.80	37.43	0.189
MD16040C	3.12	6.86	10.19	13.52	16.64	20.07	23.92	27.56	30.68	34.15	0.172
MD16050C	5.10	9.67	15.08	19.76	24.86	29.43	34.84	39.52	44.30	49.14	0.245
MD20063C	4.16	8.84	14.35	19.03	24.65	29.12	34.32	39.55	44.62	49.68	0.253

Table 9: DUO heat loss data

Note: The temperature difference is calculated based on the following approximation

DUO $\Delta T = (T_F + T_R)/2 - T_S$

UNO $\Delta T = T_F - T_S$

T_F = Flow temperature
T_R = Return temperature
T_S = Soil temperature