

Technical Advisory

High Pair Count Cables: Installation Precautions

Pulling Tension:

The recommended maximum pulling tension is determined by the strength of the copper. Attaching the pulling lines to the copper using a pulling ring is highly recommended.

Installation Bend Radius:

The installation bend radius has been determined based on a simple rule: the bend radius must be **at least 10 x** the cable diameter.

For example: If the cable is 1.0" in diameter then the safe installation bend radius is 10.0". Wheels and pulleys should be at least 20" in diameter (10" radius).

Operating Temperature:

The data sheet will usually list storage, operating and installation temperatures.

The storage temperature implies that the cable is not being flexed. The operating temperature is the range that the cable will perform within its design limits. The installation temperature takes into account the effect of putting the cable under high levels of stress during the pulling and routing of the cable.

It is highly recommended that the temperature at the site be in the installation temperature range and that the cable be conditioned for 24 hours before installation.

Category 3

Non-Plenum

Mohawk Part Number	Number of Pairs	Maximum Pulling Tension (Pounds)	Minimum Bend Diameter (inches)	Installation Temperature (°F)
M55700	25	150	4	32° to 140°
M55216	50	300	6	32° to 140°
M55211	100	600	7	32° to 140°
M55212	200	1200	10	32° to 140°
M57098	300	1800	12	32° to 140°
M57996	400	3000	16	32° to 140°
M55704	25 Shielded	150	9	32° to 140°

Plenum

Mohawk Part Number	Number of Pairs	Maximum Pulling Tension (Pounds)	Minimum Bend Diameter (inches)	Installation Temperature (°F)
M56801	25	150	4	32° to 140°
M56126	50	300	5.5	32° to 140°
M56128	100	600	8	32° to 140°
M56129	200	1200	11	32° to 140°
M57211	300	1800	13	32° to 140°
M58349	400	3000	15	32° to 140°
M55073	25 Shielded	150	7	32° to 140°

Category 5 and 5e

Non-Plenum

Mohawk Part Number 5/5e	Number of Pairs	Maximum Pulling Tension (Pounds)	Minimum Bend Diameter (inches)	Installation Temperature (°F)
M56753/M58141	25	150	5	32° to 140°
M57040/M58522	50	300	7.5	32° to 140°
M56832/M58520	25 Shielded	150	5.25	32° to 140°

Plenum

Mohawk Part Number 5/5e	Number of Pairs	Maximum Pulling Tension (Pounds)	Minimum Bend Diameter (inches)	Installation Temperature (°F)
M56773/M58142	25	150	4.5	32° to 140°
M56700/M58521	25 Shielded	150	5	32° to 140°