

# Storage, Handling & Quality Guidelines

## Keeping every EdisonGrip™ tie at peak performance

Best-practice guidance for storing, handling, and installing EdisonGrip™ nylon cable ties — so the products in every polybag perform exactly as engineered, on every job, in every environment.

### AT A GLANCE

- Store indoors, dry, and out of direct sunlight
- Keep polybags closed and sealed until the moment of use
- Acclimate to room temperature before installing in winter
- Black ties are UV-stabilized; natural ties are not
- Respect the spec temperature range during install
- Use the right tool — pull-tension dictates joint strength

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# Storage Environment

Nylon 6.6 (PA66) — the polymer behind every EdisonGrip™ tie — is engineered for outstanding strength and weather resistance once installed. Ties ship in non-resealable polybags, so the goal of storage is simple: keep the bag closed and the environment stable until install day.

Parameter	Recommended	Acceptable	Avoid
Storage temperature	15 °C – 25 °C	5 °C – 30 °C	Above 40 °C / prolonged sub-zero
Relative humidity	45 % – 55 %	30 % – 65 %	Below 20 % / above 75 %
Light	Dark or low-lux	Indirect daylight	Direct sun / UV
Surface	Off floor, on shelving	Pallet on dry floor	Damp concrete / outdoors

## Certified Temperature ranges

Product family	Installation	Operating	Short-term peak
Standard Locking — Nylon 6.6 (Natural)	-20 °C to +85 °C	-40 °C to +85 °C	+110 °C
Standard Locking — Nylon 6.6 (UV Black)	-20 °C to +85 °C	-40 °C to +85 °C	+110 °C
Steel Locking Barb — Nylon 6.6	-20 °C to +85 °C	-60 °C to +85 °C	+110 °C

Installation is the temperature at which a tie can be cinched without risk of cracking. Operating is the temperature it can sit at in service after install. Both are printed on every polybag.

Natural (uncolored) Nylon 6.6 is not UV-stabilized — specify UV Black (carbon-black UV-stabilized) for any prolonged sunlight exposure.

## Why these limits matter

Nylon naturally absorbs and releases moisture from the air. Within the recommended ranges above, ties stay flexible and tough — exactly how they were tested and certified. Outside those ranges, ties can become temporarily stiff and brittle (very dry or very cold) or temporarily soft and slow to lock (very humid). Both conditions are recoverable; neither is desirable on installation day.

### Canadian cold-weather note

Sub-zero temperatures are a normal part of the Canadian operating environment, and our ties are rated for it. The line to watch is the installation limit: -20 °C. We do not recommend storing ties in cold environments before use — the ideal pre-installation storage temperature is around +23 °C. If installing at the lower limit of -20 °C, ties must be used within two hours of being exposed to that temperature.

# Handling & Installation

A few simple practices keep cable ties performing exactly as the specification promises — from polybag to finished install.

## DO

- Open one polybag at a time; fold the bag closed between pulls
- Specify UV Black for outdoor or sun-exposed runs
- Use a calibrated tensioning tool for repeatable pull-up
- Match tie length to bundle diameter — leave a small finger gap
- Cut the tail flush with a tool — never twist or pull-cut by hand

## DON'T

- ✘ Don't leave opened polybags exposed for days on a job site
- ✘ Don't use Natural ties outdoors — they are not UV-stabilized
- ✘ Don't expose ties to fuel, solvents, or thinners before install
- ✘ Don't reuse ties — once cinched, the locking pawl is committed
- ✘ Don't install while cold — acclimate the polybag indoors first

## Tensioning quick reference

Tie family	Tensile strength	Recommended pull-up	Tool setting
Miniature (18 lb)	80 N	Snug + 1/4 turn	1 – 2
Intermediate (40 lb)	180 N	Firm, no bundle deformation	2 – 3
Standard (50 lb)	222 N	Firm, no bundle deformation	3 – 4
Heavy (120 lb)	540 N	Tool-controlled cinch	5 – 6
Steel-locking barb	Family-rated	Tool-controlled cinch	Per family

## Reconditioning after humidity exposure

If ties feel unusually soft, slow to lock, or were exposed to high humidity in transit or open storage, condition them at 20 °C – 25 °C and 45 %–55 % RH for 48 hours before use. If the polybag is still sealed, leave it sealed during conditioning; once opened, the ties can be conditioned outside the bag in the same controlled environment.

# Quality You Can Count On

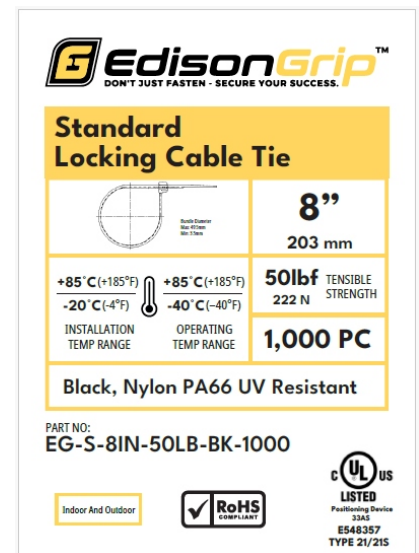
Every EdisonGrip™ tie is built to the same certified standard, run after run. Storage and handling protects until the install.

## Certifications & Standards

- UL 62275 Type 21 / 21S — listed cable ties (cULus)
- EN 62275:2019 — international cable-tie standard
- UL94 V-2 flammability rating — plenum-suitable, halogen-free, silicone-free
- RoHS · REACH · PAHs-Free — restricted-substance compliance across the product range

## What's printed on every polybag

Marking	What it tells you
Part number	Length, tensile, color, pack size
Product family	e.g. Standard Locking Cable Tie
Material & UV	Nylon 6.6 — Natural or UV-Resistant
Installation range	-20 °C to +85 °C (-4 °F to +185 °F)
Operating range	-40 °C to +85 °C (-60 °C steel barb)
Tensile strength	e.g. 50 lbf / 222 N
Pack size	e.g. 1,000 PC
Approvals	cULus listing, UL file, RoHS



Example: standard 8" UV Black 50 lbf polybag label

### If something doesn't look right

Set the affected polybags aside, photograph the bag label, and contact your EdisonGrip™ representative. We'll match the part number to its certificate of conformance, review the storage history with you, and resolve it quickly — that's the standard.

# About EdisonGrip™

EdisonGrip™ delivers certified electrical-infrastructure and wire-management products engineered for demanding commercial, industrial, and institutional environments.

Our core values: performance, consistency, supply reliability — for contractors and install crews who can't afford downtime.

## CURRENT PRODUCT & SUPPLY PORTFOLIO

- Cable ties (standard, UV, stainless-barb)
- Mounting bases, fasteners & wire-management accessories
- Identification and bundle-management accessories

## COMPLIANCE & QUALITY ASSURANCE

- cULus-certified cable ties & components
- RoHS & REACH compliant materials across the range
- Certificates of conformance and QA documentation on request

### POWERED BY EDISON ELM

EdisonGrip™ is powered by Edison Elm Inc., an industrial technology and supply-chain company connecting OEMs, engineers, contractors, and installers to performance-driven electrical and electronic brands. Edison Elm exists to modernize how industrial products move — de-commoditizing supply chains through technology, execution, and real human service. We integrate technical expertise, quality assurance, and supply-chain capability.

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