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Best Practise Guide to Cable Management

Don't let your rack look like a spaghetti bowl.

Neat today. Easy tomorrow.



WHY CABLE MANAGEMENT MATTERS

No matter the size of your installation, messy cabling is more than just an eyesore, it's a silent network killer. Poor cable management leads to:

- Signal interference
- Reduced airflow and overheating
- Damaged cables and fragile ports
- Lead to accidental unplugging or broken cable ends during maintenance
- Headaches during fault-finding and maintenance

WHAT GOES WRONG?

It's not just about looks. Disorganised cabling can:

- Cause electromagnetic interference between power and data lines
- Introduce kinks and sharp bends that degrade signal integrity (especially on CAT6/6a)
- Lead to accidental disconnections or damage when moving or servicing equipment
- Block airflow in racks, creating hotspots

PRO INSTALLER TIPS

Include a simple cabling diagram in your install pack. It takes five minutes now and saves hours down the line.

- Label both ends of every cable - it saves hours during maintenance.
- Velcro beats cable ties - no over-tightening, and they're reusable.
- Separate power and data lines wherever possible.
- Stick to needed lengths - don't coil excess cable behind the rack.
- Respect the bend radius -avoid pinching or tightly bending cables.

REALITY CHECK

South African installs often face:

- Tight cabinet spaces
- High dust levels
- Warm environments with poor cooling

All of this makes proper cable management essential, not optional.

LET DUXNET HELP YOU TAME THE TANGLE LIKE A PRO AND INSTALL SMARTER – FROM DAY ONE.

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Installer Cable Management Checklist

Best Practices for Neat, Reliable Installations in South African Conditions



PRE-INSTALLATION CHECKS

- [ ] Check cable types: Use CAT6 or CAT6a for high-speed and PoE applications
- [ ] Plan the rack layout: Know where each device will be mounted
- [ ] Confirm expected cable runs and endpoints
- [ ] Allocate separate paths for power and data cables

INSTALLATION SETUP

- [ ] Use Velcro straps - avoid plastic ties that pinch cables
- [ ] Bundle cables neatly in groups (per device type or direction)
- [ ] Avoid tightly coiling excess cable - cut to length where possible
- [ ] Maintain minimum bend radius - no sharp kinks or pinches
- [ ] Keep airflow clear - avoid blocking ventilation slots or fans
- [ ] Label both ends of every cable - use printed labels or clear marker sleeves

POST-INSTALLATION CHECK

- [ ] Double-check all cable labels are legible and correct
- [ ] Confirm tidy routing - no tangled or crossing cables behind the rack
- [ ] Check that doors, panels, and fans close without obstruction
- [ ] Take photos of the finished rack for install documentation
- [ ] Attach a basic cable map or diagram to the install report

NEED HELP?

Contact our expert support team for advice on rack planning, best-practice layouts, or cabling tools.