



# DyNet-STP-CABLE-LSZH

Cat5 Cable

100 MHz 100 STP 4 pair Cat5e

DyNet data cable is specifically designed for high reliability RS-485 network wiring. In addition to a twisted pair for RS-485 data, conductors are provided to supply DC power to network powered devices.

# DyNet-STP-CABLE-LSZH

100 MHz 100 STP 4 pair Cat5e

- **Overall shield for maximum data integrity** – The data cable is flexible and all conductors are stranded.
- **Fast termination** – Designed for robust termination into pressure-plate style terminals.
- **Extra thick outer jacket** – Mains rated for use in distribution boards.
- **Supplied in 305 meter roll**

# Specifications

Due to continuous improvements and innovations, specifications may change without notice.



## Electrical

Characteristic Impedance	100 $\Omega$ $\pm$ 5 $\Omega$ @ 100 MHz
Conductor DC Loop Resistance	190 $\Omega$ /km (max)
DC Resistance Imbalance	2.5% (max)
Dielectric Strength Between Pairs	1 KV RMS / minute
Dielectric Strength Conductors to Screen	2.5 KV RMS / min
Capacitance	56 pF/m
Capacitance Imbalance	3.3 pF/M (max)
Maximum Delay	620 ns/100 m @ 100 MHz
Outer Jacket Voltage Rating	600 V RMS

## Conductors

Wires	4 x twisted pairs and shield
Construction	Stranded Bare Copper 0.2 mm <sup>2</sup> (#24 AWG) 7-strand
Insulation	Polyethylene HDPE $\varnothing$ 1.08 mm $\pm$ 0.05 mm
Colors	blue/white-blue orange/white-orange green/white-green brown/white-brown
Shielding	Aluminium/Mylar tape, 100% coverage
Drain Wire	Tinned copper 0.2 mm <sup>2</sup> (#24 AWG) 7-strand

## Physical

Dimensions (Cross-Section)	$\varnothing$ 6.8 mm $\pm$ 0.30 mm
Shipping Carton (H x W x D)	425 x 212 x 425 mm (16.7 x 8.3 x 16.7 in)
Packed Weight	15 kg / 305 m roll (33 lb / 1000.6 ft roll)
Outer Jacket Construction	LSZH PVC
Outer Jacket Color	Orange
Outer Jacket Thickness	0.54 mm $\pm$ 0.05 mm
Minimum Bending Radius (Installed)	55 mm
Maximum Tensile Load (Installation)	100 N
Maximum Tensile Load (Installed)	0 N

## Environment

Operating Temperature	-20° to 70°C ambient (-4° to 158°F)
Storage/Transport Temperature	-20° to 70°C ambient (-4° to 158°F)
Humidity	0 to 90% non-condensing

## Compliance

Certification	CE, RoHS ISO/IEC 11801 ACA Approval (N1756) TIA/EIA-568B.2 Category 5E
---------------	---------------------------------------------------------------------------------



---

## Ordering Code

### Product

DyNet-STP-CABLE-LSZH (305 m roll)

**Philips 12NC**

913703041409

---

