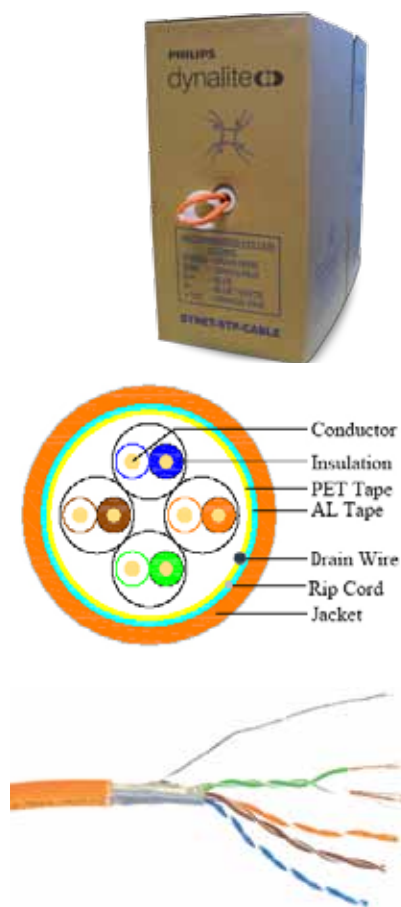


DyNet data cable is specifically designed for high reliability RS485 network wiring. In addition to a twisted pair for RS485 data, conductors are provided to supply DC power to network powered peripherals. Conductors are shielded for maximum data integrity. The data cable is flexible, as all conductors are stranded, which also allows for robust termination into pressure plate style terminals used on Philips Dynamalite equipment. The extra thick outer jacket is mains rated for use in switchboards and enhances the robustness of the cable. The cable is supplied in 305 metre lengths.

technical data >>>



**Conductors**

4 twisted pairs and shield

Construction: Stranded Bare Copper  
7 x Ø 0.23mm (24AWG)

Insulation: Polyethylene PE  
Ø 1.00±0.02mm

**Pair Identification**

- PAIR 1: blue/white-blue
- PAIR 2: orange/white-orange
- PAIR 3: green/white-green
- PAIR 4: brown/white-brown

**Shielding**

Aluminium/Mylar tape, 100% coverage  
Draw Wire: Tinned Copper  
Ø 0.51mm (24AWG)

**Mechanical Characteristics**

Outer jacket construction: PVC  
Thickness: 0.74±0.05mm Ø 7.3±0.20mm

Outer jacket colour: Orange

Minimum cable bending radius installed:  
8 times outer cable diameter

Maximum tensile load - Installation:  
100 N

Maximum tensile load - Installed:  
No stretch

**Electrical Properties**

Characteristic Impedance:  
100±5Ω @ 100MHz

DC loop resistance: Max. 190 Ω/km

DC resistance imbalance: Max. 2.5%

Dielectric strength between pairs:  
1KV RMS/minute

Dielectric strength conductors to screen:  
2.5KV RMS/minute

Capacitance: 56pF/m

Capacitance Imbalance: Max. 3.3pF/m

Velocity of Propagation:  
<620 nsec/100m @ 100MHzΩ

Outer jacket voltage rating: 600V RMS

**Operating Environment**

Installation: 0°C to +50°C  
Operation: -20°C to +60°C

**Standards Compliance**

TIA/EIA-568B.2 Category 5E  
UL Verified E227171  
ACA Approval N1756

**Packaging**

Cable length: 305 metres  
Carton: H 425mm x W 212mm x D 425mm  
Weight: 15.0 Kg

**Order Code**

DYNET-STP-CABLE

electrical performance >>>

Frequency	Attenuation, Max (dB/100M)	NEXT (dB)	PS NEXT (dB)	ELFEXT (dB)	PS ELFEXT (dB)	Return Loss (dB/100m)
1.0MHz	3.10	65	62	64	61	20.00
4.0MHz	6.10	56	53	52	49	23.00
10.0MHz	9.70	50	47	44	41	25.00
16.0MHz	12.40	47	44	40	37	25.00
20.0MHz	13.90	46	43	38	35	25.00
31.25MHz	17.60	43	40	34	31	24.30
62.5MHz	25.50	38	35	28	25	21.50
100.0MHz	33.00	35	32	24	21	20.10

**PHILIPS**

dynalite 

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# DYNET DATA CABLE

100MHz 100Ω STP 4 pair CAT5E

**PHILIPS**

dynalite 

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For further information contact:



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