important notes

Data Cable – The recommended minimum grade of cable for connections to the serial port is screened, stranded RS485 data cable with three twisted pairs. This cable should be segregated from mains cables by a minimum distance of 300mm. If anticipated cable runs are over 600 meters, consult your distributor for advice. Do not cut or terminate live data cables. Recommended cable types include:

For screw terminal panels:

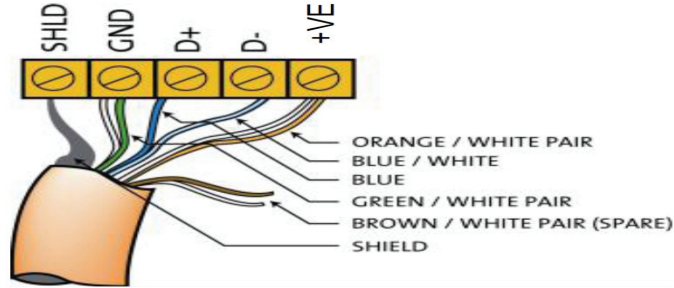|			
Belden:	9503	M & M Cable:	B2003CS
Dynalite	DYNET-STP-CABLE	M & M Cable:	B9503CS
Garland:	MCP3S	Multicables:	AWM E120236 2092 20
Hartland:	HCK603	RS Components:	368-687

For RJ12 socketed panels:

Dynalite: DYNET-SFLAT6-CABLE

Wall Boxes – To comply with local electrical standards, this product may be required to be installed into a metal wallbox (not supplied). Contact your distributor for details.
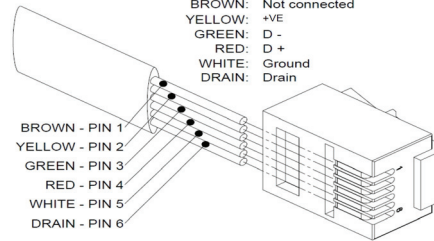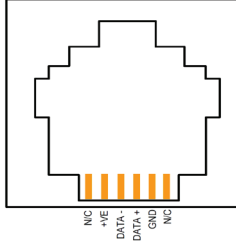
Special Programming – Once powered and correctly terminated, the control panel will operate in basic mode, turning all lights on from button one and all lighting off from button four. Other network panels will follow button press with their buttons indicating LED's if all network terminations are correct. Only once the full Dynet network is tested from each panel can commissioning process begin. Panel will need to be programmed with Envision commissioning tool. For commissioning contact your local distributor for details.

Programming Information – This manual is an installation guide only. For detailed programming information, contact your distributor or visit: **philips.com/dynalite**

Terminal options on rear of network panel

SHLD   GND   D+   D-   +VE

ORANGE / WHITE PAIR
BLUE / WHITE
BLUE
GREEN / WHITE PAIR
BROWN / WHITE PAIR (SPARE)
SHIELD

BROWN: Not connected
YELLOW: +VE
GREEN: D -
RED: D +
WHITE: Ground
DRAIN: Drain

-RJ network socket option

BROWN - PIN 1
YELLOW - PIN 2
GREEN - PIN 3
RED - PIN 4
WHITE - PIN 5
DRAIN - PIN 6

NIC   +VE   DATA -   DATA +   GND   NIC

PHILIPS
dynalite

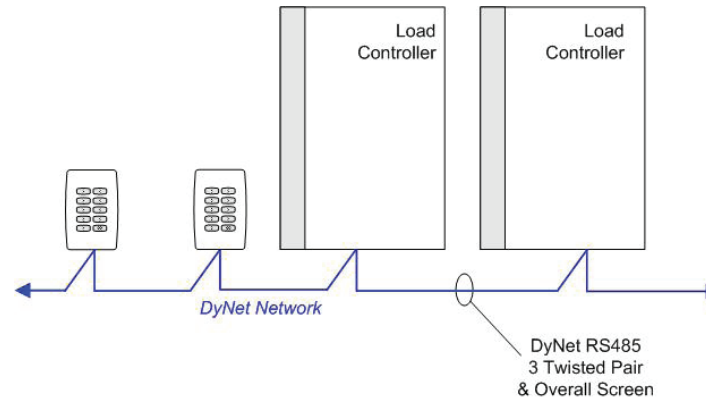# DLP, DL2P, DPN & DR2P

9 Series Panels Installation Manual

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connecting data cables

- Use screened, stranded RS485 data cable with three twisted pairs.
- Connect data cable to devices in a 'daisy chain'. Start at the first device, then loop in then out of devices, with a single cable terminating at the last device.
- When laying out the network cable it is recommended that spurs or stubs (X, Y, or T joins) be avoided. The first and last device should terminate one cable, all other devices should terminate two cables. Network devices may be wired in any order.
- Physical constraints may dictate that data cable spurs are necessary. In these cases, Network Bridges may be needed. Consult your distributor for details.
- The Data Cable should be segregated from any Mains Cables. If the Data Cable has to cross over any Mains Cables, it should do so at a 90° angle.
- A data cable that is connected to an energised dimmer is live. Do not cut or terminate live data cables.

Connect Data Cable in a Daisy Chain

Load Controller
Load Controller
DyNet Network
DyNet RS485 3 Twisted Pair & Overall Screen

Recommended Connection Method

specifications

DLP,DL2P,DPN & DR2P 9 SERIES Smart Panels

Supply:
10 – 16 Volts DC from DyNet Network
50mA nominal

Operating Climate
0° to 50ºC ambient temperature
0% to 95% RH non-condensing

Serial Port:
RS 485 DyNet - 5 way terminal block or 2 x RJ12 socket

Compliance:
CE, C-Tick