

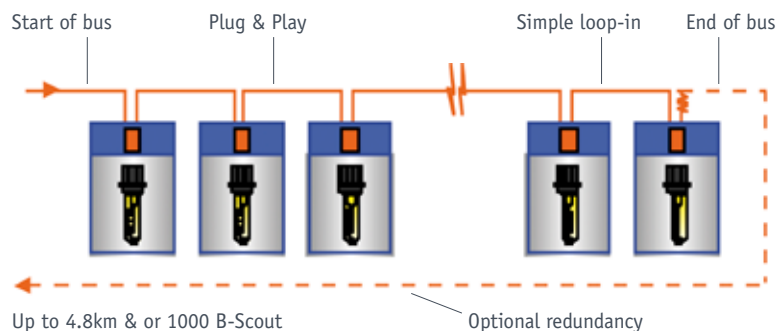
Data-bus Network



Used in conjunction with the B-Scout lighting Control and Monitoring system, the RS-485 Bus Cable is specifically designed for the arduous conditions common to the road tunnel environment. The strict specifications on shielding against electromagnetic interference and electrical noise ensure unsurpassed reliability. Coupled with its easy to install plug-and-play connectors, the cable allows the installer to quickly create an uncomplicated single layer communications network without any requirement for specialist engineers.



Typical topology



1. Cable

Conductors flexible tinned copper stranded.

Insulation foam polyethylene.

Shield aluminium foil 100% + 22awg drain wire + overall braid 90%.

Jacket low smoke zero halogen - Orange (LSOH).

Nominal OD 7.7mm.

Service temperature +60°C max.

Standards:

IEC 60332-1 - Flame resistant for single cables.

IEC 60332-3 - Flame resistant for bunched cables.

IEC 61034 - Low smoke generation.

IEC 60754-1 - Negligible halogen gas generation.

2. Plug & Socket Connections

Durability 250 matings & unmatings.

Vibration resistance per IEC 60512-4.

Thermal shock per MIL-STD 1344 method 1003.

Insulation Resistance 5000MΩ min.

Test potential 2000VAC.

Operating temperature +105°C max.

Flammability Rating UL94V0 and NFF16101 level 2.

Sealing (mated) IP 68 - per IEC 60529.

UV-resistant.

Housing material thermoplastic.

FEATURES

Durable, single twisted pair cable

Thermoplastic, halogen-free sheath

High levels of EMI protection

Developed specifically for hostile tunnel environments

Industrial grade shielding

Impedance and capacitance matched for RS-485 applications

Suitable for use with plug-and-play systems

Single layer network, with only one protocol

No specialist engineers required

Fast tool-free replacement of damaged cables

Various assembly lengths available

Provides communications up to 4.8km*

Connects up to 1000* B-Scouts per network

* 3 repeater units required per bus to reach max length & quantity

MODELS

IT-RS485-TSS1CS

IT-RS485-CA3LD-FITTED

IT-RS485-CA3LS-FITTED

DESCRIPTION

RS-485 single pair trunk bus cable

RS-485 flying lead terminal socket fitted to cable

RS-485 flying lead terminal plug fitted to cable