



Caledonian

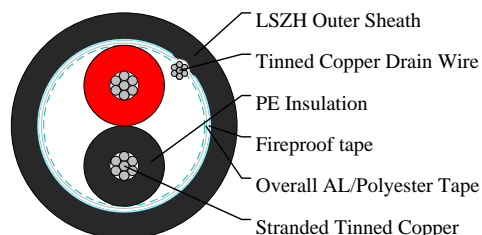
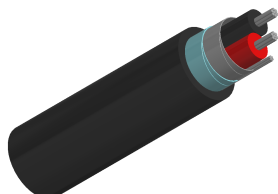
Airport Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

PAS (Public Address System) RS485 Data Cable

RE-02Y(St)H 1P18A (CU/PE/OSCR/LSZH 1×2×18AWG)



APPLICATIONS

The cables are designed for RS485 data connections. This cable combines low capacitance insulation with one of the highest levels of screening to provide high speed, interference free, data transmission where continued functionality is required during a fire situation.

FIRE PERFORMANCE

| | |
|---------------------------|-------------------------------------|
| Basic design | EIA/TIA 485 |
| Halogen Free | IEC 60754-1 |
| No corrosive gas emission | IEC 60754-2 |
| Minimum Smoke Emission | IEC 61034/1/2 |
| Reduced Fire Propagation | IEC 60332-3C / NF C 32-070-2.2 (C1) |
| Flame Retardance | IEC 60332-1 / NF C 32-070-2.1 (C2) |
| Fire Resistance | IEC 60331-23 / NF C 32-070-2.3(CR1) |

CABLE CONSTRUCTION

Conductors: Tinned annealed copper wire, stranded according to IEC(EN) 60228 class 2.

Insulation: Solid or foam PE compound.

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk.

Overall screen: Aluminum/ polyester tape with tinned copper drain wire.

Fire Barrier: Fireproof tape.

Outer Sheath: Thermoplastic LSZH compound type LTS3 as per BS 7655-6.1.

PHYSICAL AND THERMAL PROPERTIES

Temperature range during operation (fixed state): -30°C – +90°C

Temperature range during installation (mobile state): -20°C – +50°C

Minimum bending radius: 8 × Overall Diameter

Electrical Properties

Dielectric test: 1000 V r.m.s. for 5' (core-core)

1000 V r.m.s. for 5' (core-screen)



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Impedance: 120Ω

Capacitance: 45 nF/km conductor to conductor

90 nF/km conductor to shield

DIMENSION AND PARAMETERS

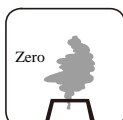
| No. of Pairs | AWG Size | No./Nominal Diameter of Strands | Nominal Insulation Thickness | Nominal Sheath Thickness | Nom. Overall Diameter | Approx. Weight |
|--------------|----------|---------------------------------|------------------------------|--------------------------|-----------------------|----------------|
| | | no./mm | mm | mm | mm | kg/km |
| 1 | 18 | 7/0.404 | 1.15 | 1.2 | 10.5 | 100 |



Fire Resistant
IEC 60331-21



Flame Retardant
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1



Halogen Free
IEC 60754-1



Low Corrosivity
IEC60754-2/EN50267-2.2/3
NF C32-074/NF C20-453



Low Smoke Emission
IEC 61034-2 / EN 50268-2
NF C32-073/NF C 20-902



Reduced Fire Propagation
NF C32-070-2.2(C1)
IEC60332-3-24/EN50266-2-4