

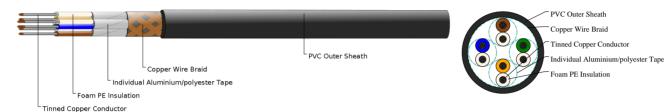
## Caledonian

## FIREGUARD Flame Retardant Instrumentation & Data Cables

www.caledonian-cables.com marketing@caledonian-cables.com

#### Flame Retardant RS485 Databus Cables

Multipair RS 485 Individual & Overall Screened Databus Cable RE-02Y(St)CY PiMF / RE-02YS(St)CY PiMF 4P1



#### **APPLICATIONS**

The cables are designed for RS485 data connections where continued functionality is required during a fire situation. 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.

#### **STANDARDS**

Basic design adapted to EIA/TIA 485

#### FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	BS EN 60332-1-2

#### CABLE CONSTRUCTION

Conductors: Tinned copper wire, stranded according to IEC 60228 class 2 or class 5.

Insulation: Foam PE or foam skin PE.

Cabling Elements: Insulated cores are twisted to form pairs with varying lay length to minimize crosstalk. Two pair cable had four cores laid in quad formation.

Cabling: Pairs are cabled together in concentric layers.

Individual Screen: Individual aluminium/polyester tape.

Overall Screen: Copper wire braid.

Outer Sheath: Thermoplastic PVC compound.

Outer Sheath Option: UV resistance, hydrocarbon resistance, oil resistance, anti-rodent and anti-termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

#### PHYSICAL AND THERMAL PROPERTIES

Temperature range during operation (fixed state):  $-20^{\circ}\text{C}$  -  $+90^{\circ}\text{C}$  Temperature range during installation (mobile state):  $-5^{\circ}\text{C}$  -  $+60^{\circ}\text{C}$ 

Minimum bending radius: 8 x Overall Diameter

**Electrical Properties** 



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

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

Impedance:120  $\Omega$ 

Capacitance:45 nF/km conductor to conductor

90 nF/km conductor to shield

### **DIMENSION AND PARAMETERS**

No. of Pairs	Nominal Cross- sectional Area	No./Nominal Diameter of Strands	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Approx. Weight
	mm²	no./mm	mm	mm	mm	kg/km
4	1	30/0.2	0.7	1.1	14.7	238





EIA/TIA 485

