

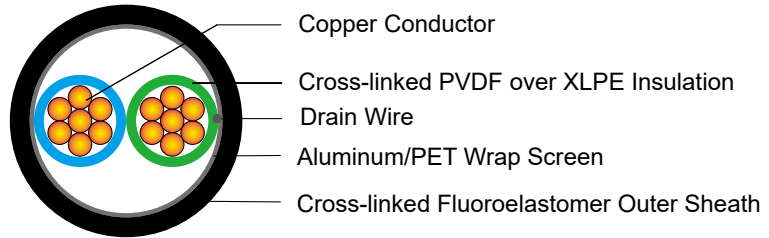
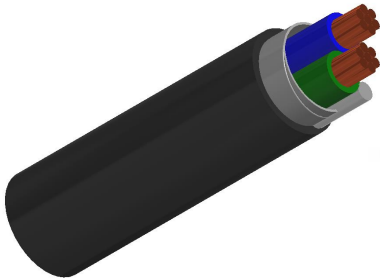


Caledonian

SENSOR CABLE

www.caledonian-cables.co.uk www.addison-cables.com

SHIELDED SENSOR CABLE



APPLICATION

- ⊗ Smaller cables providing easier handling and space savings.
- ⊗ Compatible with wire-handling equipment used in harness shops.
- ⊗ Compatible with over-molding processes and materials used in sensor assembly.

STANDARD

Basic design to EN50264

FIRE PERFORMANCE

Flame Retardance (Single vertical wire or cable test)	IEC 60332-1-2; EN 60332-1-2
Reduced Fire Propagation (Vertically-mounted bundled wires & cables test)	IEC 60332-3-24; EN 60332-3-24
Halogen Free	IEC 60754-1; EN 50267-2-1
No Corrosive Gas Emission	IEC 60754-2; EN 50267-2-2
Minimum Smoke Emission	IEC 61034-2; EN 61034-2

CONSTRUCTION

Conductor: Tinned Copper /Bare Copper.

Insulation: Cross-linked PVDF over XLPE.

Screen: Aluminum/PET Wrap+ Drain Wire.

Sheath: Cross-linked Fluoroelastomer or Cross-linked Modified Polyolefin.

Outer Sheath Option: UV resistance, hydrocarbon resistance, oil resistance, anti-rodent and anti-termite properties can be offered as option.

COLOUR CODE

Insulation Colour: Blue, Brown, Black, White, Green (Other colours can be offered upon request).

Sheath Colour: Black (Other colours can be offered upon request).

PHYSICAL AND THERMAL PROPERTIES

Operating temperature :-55°C—200°C.

Short-term operating temperature:

240 hours @ 175°C (Cross-linked modified polyolefin sheath);

160 hours @ 250°C (Cross-linked modified polyolefin sheath);

6 hours @ 300°C (Cross-linked fluoroelastomer sheath);

Cold bend :-40°C (Cross-linked modified polyolefin sheath);

-25°C (Cross-linked fluoroelastomer sheath).

Flammability :70s (Cross-linked modified polyolefin sheath);

30s (Cross-linked fluoroelastomer sheath).

Abrasion: (ISO 6722) > 500 cycles (Cross-linked modified polyolefin sheath);

> 1000 cycles (Cross-linked fluoroelastomer sheath).

Fluid resistance: As per ISO 6722:2011 (E) Media groups 1 & 2.

Bending radius: 10xOD during installation;

5xOD fixed installed.

CONSTRUCTION PARAMETERS

CONDUCTOR		SENSOR CABLE		
No. of Cores × Cross Section	Class of Conductor	Min. Overall Diameter	Max. Overall Diameter	Weight
mm ²		mm	mm	kg/km
2×0.35	2	3.2	3.6	20.0
3×0.35	2	3.4	3.8	24.8
2×0.50	2	3.4	3.8	24.8
3×0.50	2	3.6	4.0	31.0
2×0.75	2	3.8	4.2	33.0
3×0.75	2	4.1	4.5	41.7
2×1.0	2	4.1	4.5	40.7
3×1.0	2	4.4	4.8	51.8

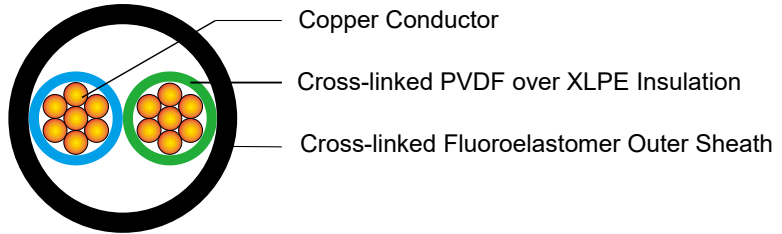
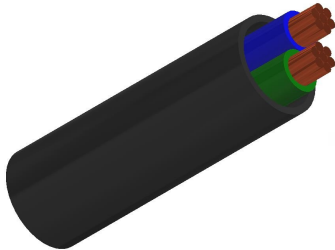


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SENSOR CABLE

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UNSHIELDED SENSOR CABLE



APPLICATION

- ⊗ Smaller cables providing easier handling and space savings.
- ⊗ Compatible with wire-handling equipment used in harness shops.
- ⊗ Compatible with over-molding processes and materials used in sensor assembly.

STANDARDS

Basic design to EN50264

FIRE PERFORMANCE

Flame Retardance (Single vertical wire or cable test)	IEC 60332-1-2; EN 60332-1-2
Reduced Fire Propagation (Vertically-mounted bundled wires & cables test)	IEC 60332-3-24; EN 60332-3-24
Halogen Free	IEC 60754-1; EN 50267-2-1
No Corrosive Gas Emission	IEC 60754-2; EN 50267-2-2
Minimum Smoke Emission	IEC 61034-2; EN 61034-2

CONSTRUCTION

Conductor: Tinnde Copper /Bare Copper.

Insulation: Cross-linked PVDF over XLPE.

Sheath: Cross-linked Fluoroelastomer or Cross-linked Modified Polyolefin.

Outer Sheath Option: UV resistance, hydrocarbon resistance, oil resistance, anti-rodent and anti-termite properties can be offered as option.

COLOUR CODE

Insulation Colour: Blue,Brown,Black,White,Green(Other colours can be offered upon request).

Sheath Colour: Black (Other colours can be offered upon request).

PHYSICAL AND THERMAL PROPERTIES

Operating temperature :-55°C—200°C .

Short-term operating temperature:

240 hours @ 175°C (Cross-linked modified polyolefin sheath);

160 hours @ 250°C(Cross-linked modified polyolefin sheath);

6 hours @ 300°C(Cross-linked fluoroelastomer sheath);

Cold bend :-40°C(Cross-linked modified polyolefin sheath);

-25°C(Cross-linked fluoroelastomer sheath).

Flammability:70s(Cross-linked modified polyolefin sheath);

30s(Cross-linked fluoroelastomer sheath).

Abrasion: (ISO 6722) > 500 cycles(Cross-linked modified polyolefin sheath);

> 1000 cycles(Cross-linked fluoroelastomer sheath).

Fluid resistance: As per ISO6722:2011 (E) Media groups 1 & 2.

Bending radius: 10xOD during installation;

5xOD fixed installed.

CONSTRUCTION PARAMETERS

CONDUCTOR		SENSOR CABLE		
No.of Cores× Cross Section	Class of Conductor	Min. Overall Diameter	Max. Overall Diameter	Weight
mm ²		mm	mm	kg/km
2×0.35	2	3.1	3.5	19.23
3×0.35	2	3.3	3.7	19.56
4×0.35	2	3.6	4.0	10.1
2×0.50	2	3.3	3.7	11.0
3×0.50	2	3.5	3.9	11.4
4×0.50	2	3.8	4.2	11.9
2×0.75	2	3.7	4.1	14.1
3×0.75	2	4.0	4.4	14.5
4×0.75	2	4.3	4.5	15.2
2×1.0	2	4.0	4.4	16.9
3×1.0	2	4.3	4.7	17.4
4×1.0	2	4.7	5.1	18.1