

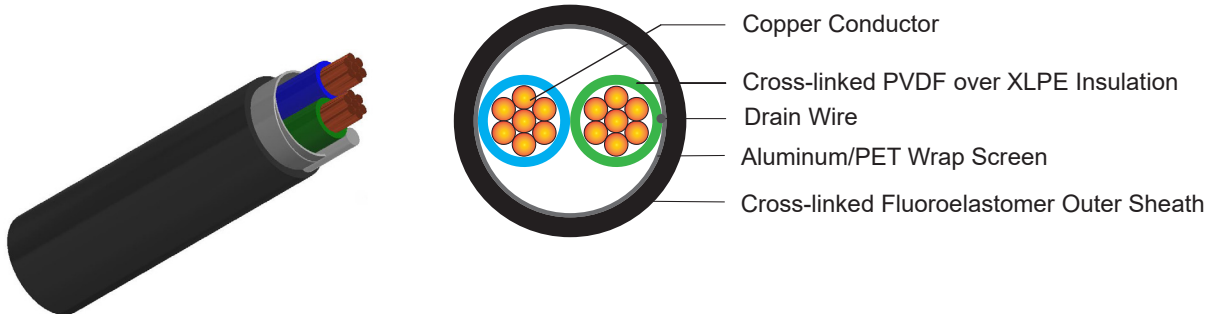


Caledonian

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

Note: The parameters listed above are nominal values as per cable standards. Actual values may vary due to material and manufacturing process variations. For precise specifications or customized requirements, please contact us for further information.

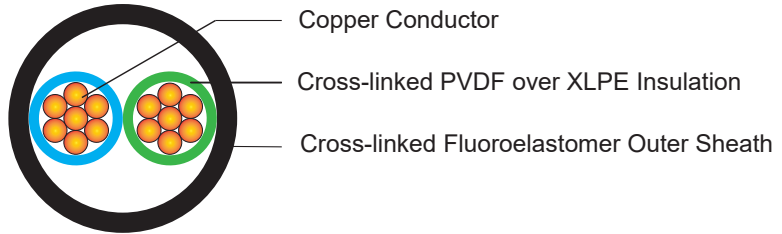
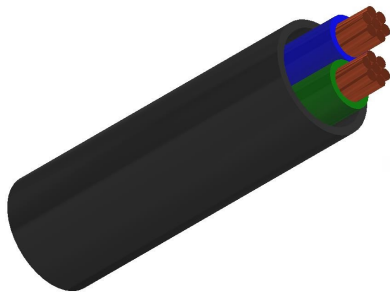


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SENSOR CABLE

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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 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	3.1	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

Note: The parameters listed above are nominal values as per cable standards. Actual values may vary due to material and manufacturing process variations. For precise specifications or customized requirements, please contact us for further information.