



## Transmission cable

### FEATURES

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- For use in potentially explosive atmospheres
- 2 x 0.5 mm<sup>2</sup> twisted cores
- PUR outer sheath
- Good chemical resistance
- Low capacitance
- Temperature range : -40°C to +70°C



### DESCRIPTION

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The K 210 signal transmission cable is used to connect a transducer with electronics or a signal conditioner to the processing/monitoring system. It is a two core shielded cable designed to withstand extreme ambient temperatures and hostile industrial environments (oil, solvents, etc...). This cable is recommended for Ex petrochemical screened connections of field-mounted transducers/electronic to remote electronics, where high mechanical performance combined with oil and petroleum resistance is required.

Due to its low capacitance and resistance, cable lengths can be greater than 1 000 metres for

transmission of current modulated signals up to a frequency of 30 kHz without significant signal distortion.

To ensure proper functioning of systems and to facilitate field installation, flexible protection tubes can be used to provide mechanical protection. It is recommended that the cable ends are terminated at a junction box or with transducer or electronics matching connectors or lugs.

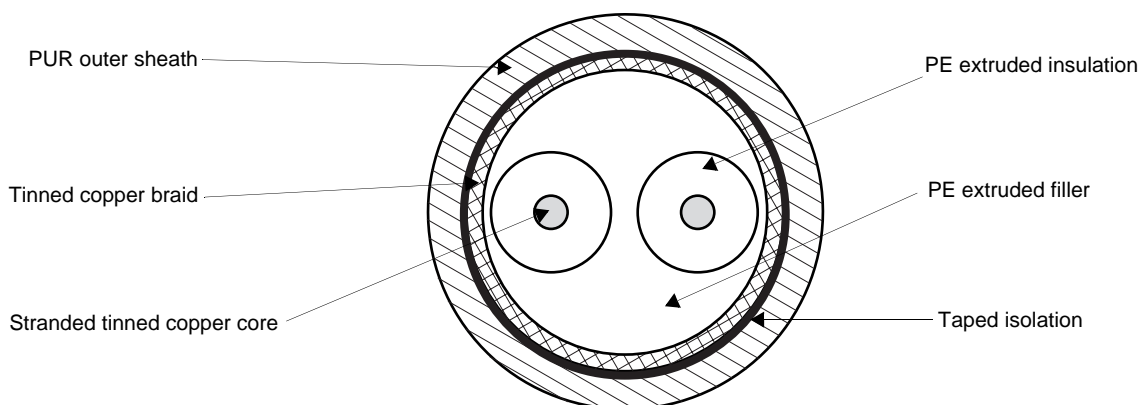
Cable assemblies to facilitate field installations, or to match special installation requirements, are available on request.



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## MECHANICAL CONSTRUCTION

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## SPECIFICATIONS

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### PHYSICAL

Conductors	: 19 x 0.18 mm; Ø 1.0 mm
Colour code	: White (+ signal) and black (- signal)
Conductor insulation	: PE
Shield	: Braided tin-plated copper, covering > 85%
Outer sheath	: Blue PUR with thickness ~ 1 mm
Cable diameter	: 7.6 ±0.3 mm
Weight	: 67 g/m
Bending radius	: 40 mm (minimum)
Operating temperature (continuous)	: -40°C to +70°C

### ELECTRICAL

(at +20°C)	
Voltage rating	: 500 V RMS
Test voltage	: 2 000 V RMS
Resistance	
• Core	: 39 Ω/km
• Shield	: 14 Ω/km
Capacitance (nominal)	
• Core to core + shield clamped	: 90 pF/m
• Core to core	: 55 pF/m
• Core to shield	: 140 pF/m
Inductance of the measuring loop	: 0.9 μH/m

## MECHANICAL

Notched bar impact resistance	: High
Abrasion resistance	: High
Breaking strength	: High
Impact and bending resistance	: High
Cold flexibility	: Good

## CHEMICAL

Weather resistance	: Good
Water resistance at +20°C	: Good
Water resistance at +70°C	: Average
Acid resistance	: Poor
Alkaline solution resistance	: Poor
Oil resistance	: Good
Gasoline resistance	: Good

## ORDERING INFORMATION

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To order please specify :

Type	Designation	Ordering Number	Cable Length
K 210	Transmission cable	957.34.20.5066	XX m



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