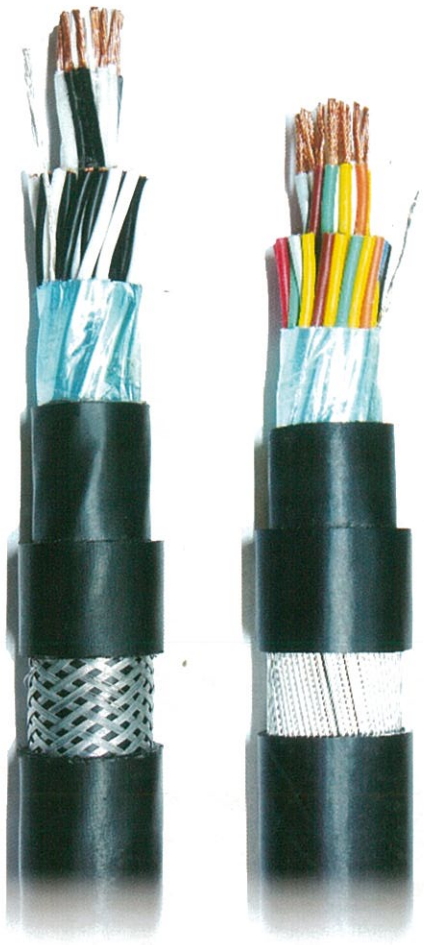

Instrumentation Cable

BS EN 50288-7

Instrumentation Cable

BS EN 50288-7

Single or multipair, overall screen, non-armoured

Application

Used for transimission of analogue or digital signals in measurement, process control and data system technologies. Aluminium screening protects the signals from external electromagnetic radations while drain wires connects the screening layers to ground.

Construction

- Annealed stranded copper wire, class 2 or 5 acc. to IEC 60228
- Insulation compound - PVC, PE, XLPE or XLEVA
- Black & white twisted pair (up to 50 pairs) with numbering (other colours upon request)
- Collective screen - aluminium/polyester foil with 0.5mm² stranded tinned copper drain wire
- PVC outer sheath with flame retardancy acc. to IEC 60332-3-22 (Cat A) or IEC 60332-3-24 (Cat C)

Conductor Sizes

- 0.5mm², 0.75mm², 1.0mm², 1.5mm², 2.5mm² (other sizes upon request)

Technical Data

- Operating temp. up to 70°C (PVC); up to 90°C (PE, XLPE); up to 105°C (XLEVA)
- Min. bending radius approx 7.5 x Ø
- Limiting Oxygen Index (LOI) > 30

Upon Request

- Multi-core or multi-triad
- Tinned copper conductor
- Fire resistant acc. to IEC 60331 or BS 6387
- Low smoke halogen free (LS0H) sheathing or insulation material acc. to IEC 60754 & IEC 61034
- Anti-termite, anti-rodent, UV & oil resistant material

Electrical Data Sheet @20°C

				Conductor size			
				0.5mm²	1.0mm²	1.5mm²	2.5mm²
Conductor resistance	Class 2	max	Ω/km	36.7	18.4	12.3	7.56
Insulation resistance	PE-insulated	min	MΩ/km	1000			
	PVC-insulated			10			
Rated Voltage		max	V	300 or 500			
High voltage test	300V AC (DC)	1 min	kV	1 (2)			
	500V AC (DC)			2 (3)			
Mutual capacitance	PE-insulated	max	nF/km	150			
	PVC-insulated			250			
L/R ratio		max	µH/Ω	25	25	40	60

Instrumentation Cable

BS EN 50288-7

Multipair, individual & overall screen, non-armoured

Application

Used for transimission of analogue or digital signals in measurement, process control and data system technologies. Aluminium screening on individual pair provides excellent protection of signals from external electromagnetic radations while drain wires connects the screening layers to ground.

Construction

- Annealed stranded copper wire, class 2 or 5 acc. to IEC 60228
- Insulation compound - PVC, PE, XLPE or XLEVA
- Black & white twisted pair (up to 50 pairs) with numbering (other colours upon request)
- Individual & Collective screen - aluminium/polyester foil with 0.5mm² stranded tinned copper drain wire
- PVC outer sheath with flame retardancy acc. to IEC 60332-3-22 (Cat A) or IEC 60332-3-24 (Cat C)

Conductor Sizes

- 0.5mm², 0.75mm², 1.0mm², 1.5mm², 2.5mm² (other sizes upon request)

Technical Data

- Operating temp. up to 70°C (PVC); up to 90°C (PE, XLPE); up to 105°C (XLEVA)
- Min. bending radius approx 7.5 x Ø
- Limiting Oxygen Index (LOI) > 30

Upon Request

- Multi-core or multi-triad
- Tinned copper conductor
- Fire resistant acc. to IEC 60331 or BS 6387
- Low smoke halogen free (LS0H) sheathing or insulation material acc. to IEC 60754 & IEC 60134
- Anti-termite, anti-rodent, UV & oil resistant material

Electrical Data Sheet @20°C

				Conductor size			
				0.5mm²	1.0mm²	1.5mm²	2.5mm²
Conductor resistance	Class 2	max	Ω/km	36.7	18.4	12.3	7.56
Insulation resistance	PE-insulated	min	MΩ/km	1000			
	PVC-insulated			10			
Rated Voltage		max	V	300 or 500			
High voltage test	300V AC (DC)	1 min	kV	1 (2)			
	500V AC (DC)			2 (3)			
Mutual capacitance	PE-insulated	max	nF/km	150			
	PVC-insulated			250			
L/R ratio		max	µH/Ω	25	25	40	60

Instrumentation Cable

BS EN 50288-7

Single or multipair, overall screen, armoured

Application

Used for transimission of analogue or digital signals in measurement, process control and data system technologies. Steel wire armouring prevents the cable from mechanical damage, hence it is suitable for installation in open-spaced or underground laying.

Construction

- Annealed stranded copper wire, class 2 or 5 acc. to IEC 60228
- Insulation compound - PVC, PE, XLPE or XLEVA
- Black & white twisted pair (up to 50 pairs) with numbering (other colours upon request)
- Collective screen - aluminium/polyester foil with 0.5mm² stranded tinned copper drain wire
- PVC or PE inner sheath
- Galvanized steel wire armouring acc. to BS 1442
- PVC outer sheath with flame retardancy acc. to IEC 60332-3-22 (Cat A) or IEC 60332-3-24 (Cat C)

Conductor Sizes

- 0.5mm², 0.75mm², 1.0mm², 1.5mm², 2.5mm² (other sizes upon request)

Technical Data

- Operating temp. up to 70°C (PVC); up to 90°C (PE, XLPE); up to 105°C (XLEVA)
- Min. bending radius approx 10 x Ø
- Limiting Oxygen Index (LOI) > 30

Upon Request

- Multi-core or multi-triad
- Tinned copper conductor
- Fire resistant acc. to IEC 60331 or BS 6387
- Low smoke halogen free (LS0H) sheathing or insulation material acc. to IEC 60754 & IEC 61034
- Anti-termite, anti-rodent, UV, oil resistant material

Electrical Data Sheet @20°C

				Conductor size			
				0.5mm²	1.0mm²	1.5mm²	2.5mm²
Conductor resistance	Class 2	max	Ω/km	36.7	18.4	12.3	7.56
Insulation resistance	PE-insulated	min	MΩ/km	1000			
	PVC-insulated			10			
Rated Voltage		max	V	300 or 500			
High voltage test	300V AC (DC)	1 min	kV	1 (2)			
	500V AC (DC)			2 (3)			
Mutual capacitance	PE-insulated	max	nF/km	150			
	PVC-insulated			250			
L/R ratio		max	µH/Ω	25	25	40	60

Instrumentation Cable

BS EN 50288-7

Multipair, individual & overall screen, armoured

Application

Used for transimission of analogue or digital signals in measurement, process control and data system technologies. Indivudial pair screening will provide excellent electromagnetic protection against outer environment. Steel wire armouring prevents the cable from mechanical damage, hence it is suitable for installation in open-spaced or underground laying.

Construction

- Annealed stranded copper wire, class 2 or 5 acc. to IEC 60228
- Insulation compound - PVC, PE, XLPE or XLEVA
- Black & white twisted pair (up to 50 pairs) with numbering (other colours upon request)
- Individual & Collective screen - aluminium/polyester foil & 0.5mm² stranded tinned copper drain wire
- PVC or PE inner sheath
- Galvanized steel wire armouring acc. to BS 1442
- PVC outer sheath with flame retardancy acc. to IEC 60332-3-22 (Cat A) or IEC 60332-3-24 (Cat C)

Conductor Sizes

- 0.5mm², 0.75mm², 1.0mm², 1.5mm², 2.5mm² (other sizes upon request)

Technical Data

- Operating temp. up to 70°C (PVC); up to 90°C (PE, XLPE); up to 105°C (XLEVA)
- Min. bending radius approx 10 x Ø
- Limiting Oxygen Index (LOI) > 30

Upon Request

- Multi-core or multi-triad
- Tinned copper conductor
- Fire resistant acc. to IEC 60331 or BS 6387
- Low smoke halogen free (LS0H) sheathing or insulation material acc. to IEC 60754 & IEC 61034
- Anti-termite, anti-rodent, UV, oil resistant material

Electrical Data Sheet @20°C

				Conductor size			
				0.5mm²	1.0mm²	1.5mm²	2.5mm²
Conductor resistance	Class 2	max	Ω/km	36.7	18.4	12.3	7.56
Insulation resistance	PE-insulated	min	MΩ/km	1000			
	PVC-insulated			10			
Rated Voltage		max	V	300 or 500			
High voltage test	300V AC (DC)	1 min	kV	1 (2)			
	500V AC (DC)			2 (3)			
Mutual capacitance	PE-insulated	max	nF/km	150			
	PVC-insulated			250			
L/R ratio		max	µH/Ω	25	25	40	60

Instrumentation Cable

BS EN 50288-7

Single or multipair, overall screen, braided

Application

Used for transimission of analogue or digital signals in measurement, process control and data system technologies. Steel wire braid prevents the cable from mechanical damage while providing better flexibility, hence it is suitable for installation in small compartment such as shipboards and offshore platforms.

Construction

- Annealed stranded copper wire, class 2 or 5 acc. to IEC 60228
- Insulation compound - PVC, PE, XLPE or XLEVA
- Black & white twisted pair (up to 50 pairs) with numbering (other colours upon request)
- Collective screen - aluminium/polyester foil with 0.5mm² stranded tinned copper drain wire
- PVC or PE inner sheath
- Galvanized steel wire braid with 80% coverage
- PVC Outer sheath with flame retardancy acc. to IEC 60332-3-22 (Cat A) or IEC 60332-3-24 (Cat C)

Conductor Sizes

- 0.5mm², 0.75mm², 1.0mm², 1.5mm², 2.5mm² (other sizes upon request)

Technical Data

- Operating temp. up to 70°C (PVC); up to 90°C (PE, XLPE); up to 105°C (XLEVA)
- Min. bending radius approx 10 x Ø
- Limiting Oxygen Index (LOI) > 30

Upon Request

- Multi-core or multi-triad
- Tinned copper conductor
- Fire resistant acc. to IEC 60331 or BS 6387
- Low smoke halogen free (LS0H) sheathing or insulation material acc. to IEC 60754 & IEC 61034
- Anti-termite, anti-rodent, UV, oil resistant material

Electrical Data Sheet @20°C

				Conductor size			
				0.5mm²	1.0mm²	1.5mm²	2.5mm²
Conductor resistance	Class 2	max	Ω/km	36.7	18.4	12.3	7.56
Insulation resistance	PE-insulated	min	MΩ/km	1000			
	PVC-insulated			10			
Rated Voltage		max	V	300 or 500			
High voltage test	300V AC (DC)	1 min	kV	1 (2)			
	500V AC (DC)			2 (3)			
Mutual capacitance	PE-insulated	max	nF/km	150			
	PVC-insulated			250			
L/R ratio		max	µH/Ω	25	25	40	60

Instrumentation Cable

BS EN 50288-7

Multipair, individual & overall screen, braided

Application

Used for transimission of analogue or digital signals in measurement, process control and data system technologies. Indivudial pair screening will provide excellent electromagnetic protection against outer environment. Steel wire braid prevents the cable from mechanical damage while providing better flexibility, hence it is suitable for installation in small compartment such as shipboards and offshore platforms.

Construction

- Annealed stranded copper wire, class 2 or 5 acc. to IEC 60228
- Insulation compound - PVC, PE, XLPE or XLEVA
- Black & white twisted pair (up to 50 pairs) with numbering (other colours upon request)
- Individual & Collective screen - aluminium/polyester foil & 0.5mm² stranded tinned copper drain wire
- PVC or PE inner sheath
- Galvanized steel wire braid with 80% coverage
- PVC outer sheath with flame retardancy acc. to IEC 60332-3-22 (Cat A) or IEC 603320-3-24 (Cat C)

Conductor Sizes

- 0.5mm², 0.75mm², 1.0mm², 1.5mm², 2.5mm² (other sizes upon request)

Technical Data

- Operating temp. up to 70°C (PVC); up to 90°C (PE, XLPE); up to 105°C (XLEVA)
- Min. bending radius approx 10 x Ø
- Limiting Oxygen Index (LOI) > 30

Upon Request

- Multi-core or multi-triad
- Tinned copper conductor
- Fire resistant acc. to IEC 60331 or BS 6387
- Low smoke halogen free (LS0H) sheathing or insulation material acc. to IEC 60754 & IEC 61034
- Anti-termite, anti-rodent, UV, oil resistant material

Electrical Data Sheet @20°C

				Conductor size			
				0.5mm²	1.0mm²	1.5mm²	2.5mm²
Conductor resistance	Class 2	max	Ω/km	36.7	18.4	12.3	7.56
Insulation resistance	PE-insulated	min	MΩ/km	1000			
	PVC-insulated			10			
Rated Voltage		max	V	300 or 500			
High voltage test	300V AC (DC)	1 min	kV	1 (2)			
	500V AC (DC)			2 (3)			
Mutual capacitance	PE-insulated	max	nF/km	150			
	PVC-insulated			250			
L/R ratio		max	µH/Ω	25	25	40	60