



PROCESS INSTRUMENTATION CABLE

BS 5308

15 orderable sizes

STANDARD BS 5308	VOLTAGE CLASS 300/500 V	CONDUCTOR 0.5 mm², 1.0 mm², 1.5 mm²
INSULATION / JACKET PVC or LSZH outer sheath		

Construction

- 1 ■ Conductor (per core) – Plain or tinned copper conductor · 32 × Ø0.2 mm · IEC 60228 cl.5
- 2 ■ Pair insulation – XLPE, EPR or fire resistant insulation
- 3 ■ Filler – Bedding / filler
- 4 ■ Overall screen (OS) – Al/polyester foil + drain
- 5 ■ Bedding – PVC bedding
- 6 ■ Armour – Galvanised steel wire armour (SWA)
- 7 ■ Sheath – PVC or LSZH outer sheath

Size selection — all available cross-sections

Cable reference	Service package	Standard	Cable design	Voltage / signal class	Pair / core design	Conductor / fibre	Screen / protection	Fire and safety rating	Oil, mud and environment	Sheath	Electrical / optical reference
BS 5308 Armoured Instrumentation 300/500 V 1 pair 0.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	1 pair	0.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	36.7 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 1 pair 1.0 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	1 pair	1.0 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	18.1 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 1 pair 1.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	1 pair	1.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	12.1 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 2 pair 0.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	2 pair	0.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	36.7 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 2 pair 1.0 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	2 pair	1.0 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	18.1 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 2 pair 1.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	2 pair	1.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	12.1 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 5 pair 0.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	5 pair	0.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	36.7 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 5 pair 1.0 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	5 pair	1.0 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	18.1 Ω/km max

Cable reference	Service package	Standard	Cable design	Voltage / signal class	Pair / core design	Conductor / fibre	Screen / protection	Fire and safety rating	Oil, mud and environment	Sheath	Electrical / optical reference
BS 5308 Armoured Instrumentation 300/500 V 5 pair 1.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	5 pair	1.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	12.1 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 10 pair 0.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	10 pair	0.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	36.7 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 10 pair 1.0 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	10 pair	1.0 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	18.1 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 10 pair 1.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	10 pair	1.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	12.1 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 20 pair 0.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	20 pair	0.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	36.7 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 20 pair 1.0 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	20 pair	1.0 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	18.1 Ω/km max
BS 5308 Armoured Instrumentation 300/500 V 20 pair 1.5 mm ² PVC or LSZH outer sheath	Process instrumentation and control signal package	BS 5308	Multipair instrumentation cable	300/500 V	20 pair	1.5 mm ²	Overall aluminium/polyester screen with drain wire and steel wire armour	Flame retardant or LSZH option	Refinery, petrochemical plant and process unit routes	PVC or LSZH outer sheath	12.1 Ω/km max