



FIRE RESISTANT SIGNAL AND INSTRUMENTATION CABLE

BS 7846

20 orderable sizes

STANDARD BS 7846	VOLTAGE CLASS 300/500 V	CONDUCTOR Copper conductor
INSULATION / JACKET LSZH		

Construction

- 1 ■ Conductor (per core) – Copper conductor · 7 × Ø0.43 mm · IEC 60228 cl.2
- 2 ■ Pair insulation – Fire resistant LSZH insulation
- 3 ■ Filler – Bedding / filler
- 4 ■ Overall screen (OS) – Al/polyester foil + drain
- 5 ■ Sheath – LSZH

Size selection — all available cross-sections

Cable reference	Voltage class	Core layout	Conductor size	Fire performance	Protection / screen	OD guide
BS 7846 Fire Resistant Instrumentation 300/500 V 1 pair 0.5 mm ²	300/500 V	1 pair	0.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	11 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 1 pair 0.75 mm ²	300/500 V	1 pair	0.75 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	12 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 1 pair 1.0 mm ²	300/500 V	1 pair	1.0 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	12 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 1 pair 1.5 mm ²	300/500 V	1 pair	1.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	13 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 2 pair 0.5 mm ²	300/500 V	2 pair	0.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	13 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 2 pair 0.75 mm ²	300/500 V	2 pair	0.75 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	14 mm

Cable reference	Voltage class	Core layout	Conductor size	Fire performance	Protection / screen	OD guide
BS 7846 Fire Resistant Instrumentation 300/500 V 2 pair 1.0 mm ²	300/500 V	2 pair	1.0 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	14 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 2 pair 1.5 mm ²	300/500 V	2 pair	1.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	15 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 5 pair 0.5 mm ²	300/500 V	5 pair	0.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	19 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 5 pair 0.75 mm ²	300/500 V	5 pair	0.75 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	19 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 5 pair 1.0 mm ²	300/500 V	5 pair	1.0 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	19 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 5 pair 1.5 mm ²	300/500 V	5 pair	1.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	20 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 10 pair 0.5 mm ²	300/500 V	10 pair	0.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	28 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 10 pair 0.75 mm ²	300/500 V	10 pair	0.75 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	28 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 10 pair 1.0 mm ²	300/500 V	10 pair	1.0 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	28 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 10 pair 1.5 mm ²	300/500 V	10 pair	1.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	29 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 20 pair 0.5 mm ²	300/500 V	20 pair	0.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	46 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 20 pair 0.75 mm ²	300/500 V	20 pair	0.75 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	46 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 20 pair 1.0 mm ²	300/500 V	20 pair	1.0 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	46 mm
BS 7846 Fire Resistant Instrumentation 300/500 V 20 pair 1.5 mm ²	300/500 V	20 pair	1.5 mm ²	IEC 60331 / BS 6387 circuit integrity	Collective metallic screen and drain wire	47 mm