EN 50288-7 Unarmoured PVC Instrumentation Cables

Low capacitance paired cables for use in instrumentation applications. Options include collective aluminium foil screen to prevent outside interference and individual & collective aluminium foil screen to prevent crosstalk between the pairs.

The EN 50288-7 standard allows for many variations including different voltage & temperature ratings, mechanical armours and fire barriers. If you cannot see the type required please call us, we will be able to help.

Construction

Type: RE-2Y(st)Y – Collective aluminium tape screen.
Plain annealed copper wire conductors to IEC 60228, class 1, 2 or 5, PE insulation, laid up as cores or twisted into pairs or triples, overall aluminium/polyester foil screen and 0.5mm² tinned copper drain wire, PVC sheath – black or blue.

Type: RE-2Y(st)Y-PiMF – Individual & collective aluminium tape screen. Plain annealed copper wire conductors to IEC 60228, class 1, 2 or 5, PE insulation, cores twisted into pairs or triples, each pair or triple aluminium/polyester foil screened and 0.5mm² tinned copper drain wire, units laid up, collective aluminium/polyester foil screen and 0.5mm² tinned copper drain wire, PVC sheath – black or blue.

Pair Identification: Black/white and numbered.

Triple Identification: Black/white/red and numbered.

Technical Information

Voltage Rating:	300V
Mutual Capacitance:	< 150nF/km
L/R Ratio:	0.5mm² & 0.75mm² = 25 µH/Ohm 1.3mm² = 40 µH/Ohm
Temperature Rating:	-30°C to +70°C fixed (minimum -5°C for installation)
Conductor Stranding:	IEC 60228 Class 1, 2 or 5 plain copper conductors
Flame Retardant:	IEC 60332-1-2
Manufactured To:	EN 50288-7

This is the European alternative to the traditional BS 5308 group of cables shown on pages 84-85.

RE-2Y(st)Y

Part No.	Pairs x mm²	Conductor Stranding mm	Colour	Weight Kg/Km	O/D mm	Conductor Resistance Ohms/Km
RE-2Y(st)Y Collective Screen						
E311O0501P0	1 x 2 x 0.5	7/0.30	Black	55	6.0	36.0
E311O0701P0	1 x 2 x 0.75	7/0.37	Black	70	6.5	24.5
E311O1301P0	1 x 2 x 1.3	7/0.44	Black	75	7.0	14.2
E311O0502P0	2 x 2 x 0.5	7/0.30	Black	70	9.0	36.0
E311O0702P0	2 x 2 x 0.75	7/0.37	Black	90	9.5	24.5
E311O1302P0	2 x 2 x 1.3	7/0.44	Black	125	10.5	14.2
E311O0504P0	4 x 2 x 0.5	7/0.30	Black	110	10.0	36.0
E311O0704P0	4 x 2 x 0.75	7/0.37	Black	135	10.5	24.5
E311O1304P0	4 x 2 x 1.3	7/0.44	Black	185	12.0	14.2
E311O0508P0	8 x 2 x 0.5	7/0.30	Black	165	12.5	36.0
E311O0708P0	8 x 2 x 0.75	7/0.37	Black	225	13.5	24.5
E311O1308P0	8 x 2 x 1.3	7/0.44	Black	340	15.5	14.2
E311O0512P0	12 x 2 x 0.5	7/0.30	Black	240	14.0	36.0
E311O0712P0	12 x 2 x 0.75	7/0.37	Black	320	16.0	24.5
E311O1312P0	12 x 2 x1.3	7/0.44	Black	490	18.5	14.2
E311O0524P0	24 x 2 x 0.5	7/0.30	Black	435	19.5	36.0
E311O0724P0	24 x 2 x 0.75	7/0.37	Black	575	21.5	24.5
E311O1324P0	24 x 2 x 1.3	7/0.44	Black	910	26.0	14.2

Part No.	Pairs x mm²	Conductor Stranding mm	Colour	Weight Kg/Km	O/D mm	Conductor Resistance Ohms/Km
RE-2Y(st)Y-PiMF	**Individual & Collective Screen**					
E311I0502P0	2 x 2 x 0.5	7/0.30	Black	105	9.5	36.0
E311I0702P0	2 x 2 x 0.75	7/0.37	Black	120	10.0	24.5
E311I1302P0	2 x 2 x 1.3	7/0.44	Black	150	11.0	14.2
E311I0504P0	4 x 2 x 0.5	7/0.30	Black	155	11.0	36.0
E311I0704P0	4 x 2 x 0.75	7/0.37	Black	185	12.5	24.5
E311I1304P0	4 x 2 x 1.3	7/0.44	Black	250	14.0	14.2
E311I0508P0	8 x 2 x 0.5	7/0.30	Black	240	13.5	36.0
E311I0708P0	8 x 2 x 0.75	7/0.37	Black	305	16.0	24.5
E311I1308P0	8 x 2 x 1.3	7/0.44	Black	415	18.5	14.2
E311I0512P0	12 x 2 x 0.5	7/0.30	Black	320	15.5	36.0
E311I0712P0	12 x 2 x 0.75	7/0.37	Black	415	19.0	24.5
E311I1312P0	12 x 2 x1.3	7/0.44	Black	580	21.5	14.2
E311I0524P0	24 x 2 x 0.5	7/0.30	Black	555	20.0	36.0
E311I0724P0	24 x 2 x 0.75	7/0.37	Black	750	25.0	24.5
E311I1324P0	24 x 2 x1.3	7/0.44	Black	1045	29.0	14.2

1.5mm² conductor sizes are also available on request. These cables have a slightly larger outer diameter.

For a **Blue** sheath change the last character of the part number (0) to 1

Larger pair counts and triple configurations are available on request as are other voltage ratings

RE-2Y(st)Y-PiMF