

Instrumentation & Data Cable

INST to AS/NZS 3808

High temperature PVC V90HT individually and overall screened

Application:

RALOS instrumentation cables are manufactured to the requirement of BS50288 as well as relevant Australia standard. Suitable for the interconnection of control equipment and instrument.

Construction:

Class 2 twisted pair annealed bare copper conductor to AS/NZS 1125 class 2. V90 PVC insulation to comply with AS/NZS3808. Laminated aluminium polyester tape individually and overall screened with stranded tinned copper 7/0.20mm drain wire. UV-stabilised and flame-retardant to IEC 60332-1 black or blue 5V90 PVC sheath.

Rated Voltage:

110/150V

Inductance:

0.5 sq/mm 1.1mH/km @ 1KHz
1.5 sq/mm 0.95mH/km @ 1KHz

Capacitance:

0.5 sq/mm 0.145uF/km @ 1KHz
1.5 sq/mm 0.20uF/km @ 1KHz

L/R Ratio:

0.5 sq/mm 0.0157 mH/Ω
1.5 sq/mm 0.0365 mH/Ω

Minimum Bending Radius:

5 x cable diameter

Temperature Range:

Fixed: -20°C to +90°C

Colour Coding:

- Pairs: black and white with continuous numbering
- Triads: black, white & red with consecutive numbering



RALOS INST

Part No.	Nominal conductor area mm ² and number of cores	Diameter of Conductor	Thickness of Insulation	Diameter of Insulation	Diameter after O-SCR	Thickness of Outer Sheath	Overall Diameter	Approx. Weight
		mm	mm	mm	mm	mm	mm	mm
INS2P0.5ESCSBK	0.5mm ² 2 pair	0.9	0.4	1.7	6.6	0.7	8.0	69
INS3P0.5ESCSBK	0.5mm ² 3 pair	0.9	0.4	1.7	7.1	0.8	8.7	94
INS4P0.5ESCSBK	0.5mm ² 4 pair	0.9	0.4	1.7	8.0	0.8	9.6	116
INS6P0.5ESCSBK	0.5mm ² 6 pair	0.9	0.4	1.7	9.8	0.9	11.6	166
INS8P0.5ESCSBK	0.5mm ² 8 pair	0.9	0.4	1.7	10.8	1.1	13.0	221
INS10P0.5ESCSBK	0.5mm ² 10 pair	0.9	0.4	1.7	13.0	1.2	15.4	279
INS12P0.5ESCSBK	0.5mm ² 12 pair	0.9	0.4	1.7	13.5	1.2	15.9	318
INS16P0.5ESCSBK	0.5mm ² 16 pair	0.9	0.4	1.7	15.3	1.4	18.1	421
INS20P0.5ESCSBK	0.5mm ² 20 pair	0.9	0.4	1.7	16.7	1.6	19.9	525
INS24P0.5ESCSBK	0.5mm ² 24 pair	0.9	0.4	1.7	19.4	1.7	22.8	633
INS36P0.5ESCSBK	0.5mm ² 36 pair	0.9	0.4	1.7	22.6	1.8	26.2	893
INS50P0.5ESCSBK	0.5mm ² 50 pair	0.9	0.4	1.7	26.3	1.8	29.9	1100
INS2P1.5ESCSBK	1.5mm ² 2 pair	1.5	0.4	2.3	8.7	0.9	10.5	126
INS3P1.5ESCSBK	1.5mm ² 3 pair	1.5	0.4	2.3	9.4	1.0	11.4	173
INS4P1.5ESCSBK	1.5mm ² 4 pair	1.5	0.4	2.3	10.5	1.1	12.7	223
INS6P1.5ESCSBK	1.5mm ² 6 pair	1.5	0.4	2.3	13.0	1.2	15.4	320
INS8P1.5ESCSBK	1.5mm ² 8 pair	1.5	0.4	2.3	14.3	1.4	17.1	420
INS10P1.5ESCSBK	1.5mm ² 10 pair	1.5	0.4	2.3	17.3	1.4	20.1	517
INS12P1.5ESCSBK	1.5mm ² 12 pair	1.5	0.4	2.3	18.0	1.6	21.2	618
INS16P1.5ESCSBK	1.5mm ² 16 pair	1.5	0.4	2.3	20.3	1.6	23.5	786
INS20P1.5ESCSBK	1.5mm ² 20 pair	1.5	0.4	2.3	22.2	1.7	25.6	964
INS24P1.5ESCSBK	1.5mm ² 24 pair	1.5	0.4	2.3	25.8	1.8	29.4	1161
INS36P1.5ESCSBK	1.5mm ² 36 pair	1.5	0.4	2.3	30.1	1.9	33.9	1664
INS50P1.5ESCSBK	1.5mm ² 50 pair	1.5	0.4	2.3	35.1	2.0	39.1	2300
INS2TR0.5ESCSBK	0.5mm ² 2 triad	0.9	0.4	1.7	7.5	0.8	9.1	91
INS4TR0.5ESCSBK	0.5mm ² 4 triad	0.9	0.4	1.7	9.0	0.9	10.8	154
INS6TR0.5ESCSBK	0.5mm ² 6 triad	0.9	0.4	1.7	11.1	1.1	13.3	229
INS12TR0.5ESCSBK	0.5mm ² 12 triad	0.9	0.4	1.7	15.3	1.5	18.3	443
INS2TR1.5ESCSBK	1.5mm ² 2 triad	1.5	0.4	2.3	9.9	1.0	11.9	170
INS4TR1.5ESCSBK	1.5mm ² 4 triad	1.5	0.4	2.3	12.0	1.3	14.6	310
INS6TR1.5ESCSBK	1.5mm ² 6 triad	1.5	0.4	2.3	14.8	1.3	17.4	437
INS12TR1.5ESCSBK	1.5mm ² 12 triad	1.5	0.4	2.3	20.4	1.7	23.8	845