RALOS

DKSH

Instrumentation Cable
Overall Screened

RALOS INST to AS/NZS 3808

High temperature PVC V90HT overall and individually screened

Application:
RALOS cables are mainly used in data processing and process control; they can also be used for general transmission of electrical signals in any systems of remote control, indication, telemetering, monitoring and analysis where it needs to be protected from interference to the transmission signal by other electrical circuits.
Reference Standard: BS EN 50288-7; AS/NZS3808

Conductor:
Stranded plain annealed copper wire Class 2 acc to AS/NZS 1125
0.5mm² (7/0.3mm);
1.0mm² (7/0.45mm)
1.5mm² (7/0.5mm)

Insulation and sheath material:
High grade Extruded Polyvinyl Chloride PVC 90°C(V-90HT)

Core colour:
Pair element: Black and white and all cores numbered.
Triad element: Black, white, red and all cores numbered.

Sheath colour:
Black sheath- standard type also available in an intrinsically blue sheath upon request.

Overall screen
A stranded tinned annealed copper drain wire(16/0.2mm) is helically applied between the lapping polyester tape and the aluminium foil (100% coverage) for extra protection against noise and interference.

Technical Data
- Rated voltage: 500 V AC
- Max. conductor resistance: DC @20°C, acc to AS/NZS 1125
- Min. Bending Radius: 6 x cable diameter
- ROHS compliant: Yes
- EC low Voltage directive: Yes

Operating temperature:
Minimum conductor continuous operating temperature: -25°C.
Maximum conductor operating temperature: 90°C
Permanent continuous conductor operating temperature: 75°C
Short circuit temperature for 5 sec: 160°C

The maximum conductor temperature specified is based on the properties of insulation material but in practice may need to be derated to take account of joints and terminations and environmental conditions.

The cables should not be flexed when either the ambient or cable temperature is below 0°C

flame retardant

uv resistant

Part No.	Nominal conductor area mm² and number of cores		Approx. overall Ø mm	Approx. weight kg/km
INS1P0.5CSBK	0.5mm²	1 pair	6.4	54
INS2P0.5CSBK	0.5mm	2 pair	9.2	83
INS1TR0.5CSBK	0.5mm²	1 triad	7.1	75
INS3P0.5CSBK	0.5mm²	3 pair	9.7	125
INS4P0.5CSBK	0.5mm²	4 pair	10.7	151
INS6P0.5CSBK	0.5mm²	6 pair	13.0	206
INS8P0.5CSBK	0.5mm²	8 pair	15.9	265
INS12P0.5CSBK	0.5mm²	12 pair	17.7	375
INS20P0.5CSBK	0.5mm²	20 pair	22.4	600
INS24P0.5CSBK	0.5mm²	24 pair	25.1	708
INS36P0.5CSBK	0.5mm²	36 pair	28.4	950

Part No.	Nominal conductor area mm² and number of cores		Approx. overall Ø mm	Approx. weight kg/km
INS1P1CSBK	1.0mm²	1 pair	7.3	72
INS1P1.5CSBK	1.5mm²	1 pair	7.7	82
INS2P1.5CSBK	1.5mm²	2 pair	11.5	146
INS1TR1.5CSBK	1.5mm²	1 triad	8.5	115
INS4P1.5CSBK	1.5mm²	4 pair	13.8	254
INS6P1.5CSBK	1.5mm²	6 pair	16.8	370
INS8P1.5CSBK	1.5mm²	8 pair	18.9	484
INS12P1.5CSBK	1.5mm²	12 pair	22.1	703
INS20P1.5CSBK	1.5mm²	20 pair	28.5	1135
INS24P1.5CSBK	1.5mm²	24 pair	30.9	1370
INS36P1.5CSBK	1.5mm²	36 pair	36.8	1967

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