

Intemp 250 Industrial Composite Cables

pro-POWER



Description:

Intemp 250 High Performance Cable is specifically designed to operate perfectly under the more arduous high temperature industrial conditions. It gives everything you want in a high temperature cable - moisture resistance, toughness, flexibility and of course, a continuous operating temperature of 250°C.

Equipment fitted with Intemp at the manufacturing stage gives trouble-free service and wherever old wiring circuits are being replaced with Intemp, users find that they have less breakdowns to worry about and less costly downtime.

As well as being easy to handle, easy to install and easily terminated using conventional crimping techniques, Intemp 250 has been shown to last up to four times as long as other high temperature cables.

Range and Dimensions:

Nominal Conductor Area (mm ²)	Standard		High Performance	
	Nominal Overall Diameter (mm)	Approx. Cable Weight (kg/km)	Nominal Overall Diameter (mm)	Approx. Cable Weight (kg/km)
1	2.89	21	3.89	24
1.5	3.14	25	4.14	29
2.5	3.57	35	4.57	39
4	4.08	49	5.08	54
6	5.98	88	6.98	97
10	7.15	131	8.15	141
16	7.88	180	9.38	197
25	9.17	259	10.67	280
35	10.88	380	12.88	412
50	12.83	556	14.83	575
70	14.98	728	16.98	776
95	17.61	1,011	20.61	1,096
120	19.31	1,234	22.31	1,328
150	20.81	1,490	23.81	1,592
185	23.33	1,885	26.33	2,001

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Current Ratings:

Nominal Conductor Area (mm ²)	Conductor Resistance at 20°C (mm)	Maximum Current Rating for One Cable in Free Air (Ambient Temperature up to 80°C) (A)
1	20	25
1.5	13.7	40
2.5	8.21	54
4	5.09	74
6	3.39	98
10	1.95	135
16	1.24	180
25	0.795	240
35	0.565	290
50	0.393	375
70	0.277	434
95	0.21	550
120	0.164	640
150	0.132	740
185	0.108	810

Construction:

Flexible Nickel plated copper conductors, PFA insulated, glass fibre braided and heat resistant varnished overall. Intemp 250 High Performance contains additional Glass Mica tapes over the PFA. Voltage rating 600/1,000V, maximum continuous conductor 250°C. Intemp 250 is easily terminated with nickel plated lugs using conventional crimping techniques. Intemp 250 will operate at a maximum continuous conductor temperature of 250°C.

In circumstances where the cable is not exposed to touch and does not run in contact with, or in the close vicinity of heat-sensitive materials, this enables it to be run at high ratings. Under these conditions it may be necessary to consider special fusing arrangements and since volt drop/power losses will be high this should be allowed for in the installations.

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Rating Factors:

For higher ambient temperatures the following factors must be applied:

Ambient Temperature (°C)	100	120	140	160	180	200	220	240
Factor	0.94	0.87	0.8	0.73	0.64	0.54	0.42	0.24

When cables are enclosed a further de-rating of 0.8 must be applied.

When cables are grouped together and touching, the following factors apply:

No. of Cables in Group	2	3	4	5	10	15	20	25
Factor	0.8	0.7	0.65	0.6	0.45	0.4	0.36	0.33

Part Number Table

Description	Part Number
Wire, Glass Fibre 32/0.2, 10m	359560

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