Intemp 250 Industrial Composite Cables



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 along as other high temperature cables.

	Stand	lard	High Performance		
Nominal Conductor Area (mm ²)	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	

Range and Dimensions:

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Current Ratings:

Nominal Conductor Area (mm²)	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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