

RS 381-731=0.75mm²
RS 381 747=1.5mm²

PRODUCT INFORMATION BICC TEMPLAS

HIGH TEMPERATURE APPLIANCE WIRES

Our Tempglas range of high temperature appliance wires provide both flexibility at high temperatures and mechanical protection for installation purposes.

APPLICATIONS:

Ideal applications for this cable are the internal wiring of domestic cookers, electric fires, night storage radiators and other similar high temperature appliances.

DESCRIPTION:

Tinned or Nickel plated copper conductors, Silicone rubber insulated, Glass braided and varnished.

CONSTRUCTION:

CONDUCTOR: Tinned or Nickel plated copper in accordance with BS6360.

INSULATION: Silicone rubber type E1 2 in accordance with BS6899.

COVERING: Glass fibre yarn applied as a braid.

VARNISH: Overall varnished.

PERFORMANCE:

VOLTAGE: 300/300V

TEMPERATURE RATING: 180°C with tinned copper conductors.

200°C with Nickel plated copper conductors.

RANGE AND DIMENSIONS:

SIZE MM ²	BS6360 CLASS	NOM O/D	APPROX KG/KM
0.50	8	2.19	9.30
0.75	5	2.40	11.26
0.88	2	2.46	13.70
1.00	N/A	2.58	14.20
1.25	5	3.08	18.30
1.50	5	3.20	20.20
2.80	5	3.80	31.30
4.00	5	4.60	51.20

Other sizes available on request.

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ELECTRICAL DATA:

CURRENT RATINGS:

SIZE MM	TINNED COPPER MAXIMUM CONDUCTOR TEMPERATURE 180°C	NICKEL PLATED COPPER MAXIMUM CONDUCTOR TEMPERATURE 200°C
0.60	10	11
0.75	16	17
0.88	20	21
1.00	21	22
1.25	28	30
1.50	32	35
2.50	48	50
4.00	65	70

The above current ratings are based on one cable free to radiate at an ambient temperature of 30°C.

RATING FACTORS

For different ambient temperatures the following factors must be applied to:

Ambient Temp °C	40	60	80	100	120	140	160	180
Tinned Co Max cond Temp 180°C	0.97	0.59	0.62	0.73	0.63	0.51	0.36	
Nick Plated Co Max cond Temp 200°C	0.97	0.91	0.84	0.77	0.69	0.59	0.49	0.34

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

Number of cables in Group	2	3	4	5	10	15	19	25
Rating Factor	0.80	0.70	0.65	0.60	0.48	0.40	0.36	0.33

When cables are installed in groups at higher ambient temperatures, both factors must be applied.

SPECIFICATION:

Generally in accordance with BS6141 Table 20.