

Copper Enamelled Wire

pro-POWER



Description:

Soft Grade 2 Enamelled Copper Wire to BS EN 60317/20.

Specifications:

Coating : Polyurethane
Primary Insulation Material : Polyurethane
Primary Insulation Colour : Transparent
Max. Operating Temperature : 120°C
Melting Temperature : 480°C
Approval bodies : BS4520

Specification Table:

Part Number	Current Rating (A)	Diameter (mm)	Tolerance (mm) On Conductor	Enamel Coat (mm)		Resistance Ω/m @ 20°C		
				Min. Increase in Dia.	Max. O.D.	Min.	Nom.	Max.
ECW0.2	0.048	0.2	± 0.003	0.027	0.239	0.5237	0.5441	0.5657
ECW0.224	0.061	0.224		0.029	0.266	0.4188	0.4338	0.4495
ECW0.25	0.076	0.25	± 0.004	0.032	0.297	0.3345	0.3482	0.3628
ECW0.315	0.12	0.315		0.035	0.367	0.2121	0.2193	0.227
ECW0.4	0.194	0.4	± 0.005	0.04	0.459	0.1316	0.136	0.1407
ECW0.5	0.304	0.5		0.045	0.566	0.08462	0.08706	0.08959
ECW0.56	0.381	0.56	± 0.006	0.047	0.63	0.06736	0.0694	0.07153
ECW0.71	0.613	0.71	± 0.007	0.053	0.789	0.04198	0.04318	0.04442
ECW0.80	0.779	0.8	± 0.008	0.056	0.884	0.03305	0.03401	0.035
ECW1.0	1.21	1		0.063	1.094	0.02116	0.02176	0.0224
ECW1.25	1.91	1.25	± 0.013	0.067	1.349	0.01353	0.01393	0.01435
ECW1.5	2.74	1.5	± 0.015	0.071	1.606	0.0094	0.00967	0.00995

www.element14.com
www.farnell.com
www.newark.com
www.cpc.co.uk

pro-POWER

Part Number Table

Description	CSA	AWG	Reel Length (m)	Part Number
Wire, Copper Enamelled, 35 SWG	0.0357mm ²	32AWG	1,850	ECW0.2
Wire, Copper Enamelled, 34 SWG	0.0428mm ²	31AWG	1,430	ECW0.224
Wire, Copper Enamelled, 33 SWG	0.0506mm ²	30AWG	1,120	ECW0.25
Wire, Copper Enamelled, 30 SWG	0.0779mm ²	28AWG	720	ECW0.315
Wire, Copper Enamelled, 27 SWG	0.136mm ²	26AWG	450	ECW0.4
Wire, Copper Enamelled, 25 SWG	0.203mm ²	24AWG	290	ECW0.5
Wire, Copper Enamelled, 24 SWG	0.246mm ²	23AWG	230	ECW0.56
Wire, Copper Enamelled, 22 SWG	0.396mm ²	21AWG	140	ECW0.71
Wire, Copper Enamelled, 21 SWG	0.515mm ²	20AWG	125	ECW0.80
Wire, Copper Enamelled, 19 SWG	0.815mm ²	18AWG	70	ECW1.0
Wire, Copper Enamelled, 18 SWG	1.17mm ²	16AWG	47	ECW1.25
Wire, Copper Enamelled, 16 SWG	2.08mm ²	15AWG	32	ECW1.5

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. pro-POWER is the registered trademark of the Group. © Premier Farnell plc 2012.