

Extra High Strength Aluminum Clad Steel wire

SINGLE WIRE AS PER EN 50540 STANDARD (TYPE - 20EHSA)

Diameter (mm)			Tensile Strength		Cross section	D C Resistance at 20°C	Nominal Weight	Minimum Thickness of Aluminium Cladding
Std	Max	Min	N/mm ²	KN	mm ²	Ω/km	Kg/km	mm
1.600	1.640	1.560	1620	3.26	2.011	42.28	13.25	0.080
1.750	1.790	1.710	1620	3.90	2.405	35.34	15.85	0.088
2.250	2.290	2.210	1620	6.44	3.976	21.38	26.20	0.113
2.500	2.540	2.460	1580	7.76	4.909	17.32	32.35	0.125
2.750	2.791	2.709	1580	9.38	5.940	14.31	39.14	0.138
3.000	3.045	2.955	1580	11.17	7.069	12.03	46.58	0.150
3.250	3.299	3.201	1545	12.82	8.296	10.25	54.67	0.163
3.500	3.553	3.448	1545	14.86	9.621	8.83	63.40	0.175
3.750	3.806	3.694	1515	16.73	11.045	7.70	72.78	0.188
Coefficient of linear expansion : 13.0 x 10 ⁻⁶ /°C					Temperature coefficient of Resistance: 0.0036/°C			
Modulus of Elasticity : 23500 Ksi (162000 MPa)					Minimum Aluminium Thickness : 10% of nominal wire radius			

Intermediate wire sizes are also available.

SINGLE WIRE AS PER EN 50540 STANDARD (TYPE - 14EHSA)

Diameter (mm)			Tensile Strength		Cross section	D C Resistance at 20°C	Nominal Weight	Minimum Thickness of Aluminium Cladding
Std	Max	Min	N/mm ²	KN	mm ²	Ω/km	Kg/km	mm
1.600	1.640	1.560	1825	3.67	2.011	61.24	14.66	0.037
1.750	1.790	1.710	1825	4.39	2.405	51.21	17.53	0.040
2.250	2.290	2.210	1825	7.26	3.976	30.97	28.99	0.052
2.500	2.540	2.460	1790	8.79	4.909	25.09	35.79	0.058
2.750	2.791	2.709	1790	10.63	5.940	20.73	43.30	0.063
3.000	3.045	2.955	1790	12.65	7.069	17.42	51.53	0.069
3.250	3.299	3.201	1760	14.60	8.296	14.84	60.48	0.075
3.500	3.553	3.448	1760	16.93	9.621	12.80	70.14	0.081
3.750	3.806	3.694	1725	19.05	11.045	11.15	80.52	0.086
Coefficient of linear expansion : 11.9 x 10 ⁻⁶ /°C					Temperature coefficient of Resistance: 0.0036/°C			
Modulus of Elasticity : 174000 MPa					Minimum Aluminium Thickness : 4.6% of nominal wire radius			

Intermediate wire sizes are also available.