

**Polyesterimide enamelled round copper winding wires of class 1 (1EIW)**

Dimensions				Minimum dielectric breakdown voltage V.	Failing load in resistance-to-abrasion test N (gf)		Maximum conductor resistance per unit length $\Omega / \text{km} (20^\circ\text{C})$	Minimum elongation %		
Conductor		Minimum film thickness mm.	Maximum overall thickness mm.		Average value (min.)	Lowest value (min.)				
Diameter mm.	Tolerance mm.									
0.10	± 0.008	0.009	0.140	2000	-	-	2647	15.0		
0.11			0.150				2200		2153	
0.12			0.010						0.162	1786
0.13									0.172	1505
0.14									0.182	1286
0.15		0.192		1111						
0.16		0.011		0.204	969.5					
0.17			0.214	853.5						
0.18			0.012	0.226	757.2					
0.19				0.236	676.2					
0.20				0.246	607.6					
0.21		0.256		549.0						
0.22		0.266		498.4						
0.23		0.013	0.278	454.5						
0.24			0.288	416.2						
0.25			0.298	382.5						
0.26			± 0.01	0.310	2800	3.5 { 357}	3.0 { 306}		358.4	
0.27				0.320		331.4				
0.28		0.330		307.3						
0.29		0.340		285.7						
0.30		0.014		0.352		3.9 { 398}	3.3 { 337}		262.9	
0.32				0.372	230.0					
0.35				0.402	191.2					
0.37				0.424	170.6					
0.40				0.456	145.3					
0.45	0.016	0.508		4.7 { 479}	4.0 { 408}	114.2				
0.50	± 0.02	0.017	3050	5.1 { 520}	4.4 { 449}	91.43				
0.55		0.620		78.15						
0.60		0.672		65.26						
0.65		0.724		55.31						
0.70		0.776		47.47						
0.75		0.830	3400	6.4 { 653}	5.4 { 551}	41.19				
0.80		0.882		6.7 { 683}	5.7 { 581}	36.08				
0.85		0.934		7.1 { 724}	6.0 { 612}	31.87				
0.90		0.986		7.5 { 765}	6.4 { 653}	28.35				
0.95		1.038		7.9 { 806}	6.7 { 683}	25.38				
1.0	± 0.03	0.025	4150	8.3 { 847}	7.0 { 714}	23.33				
1.1		1.204		8.7 { 887}	7.4 { 755}	19.17				
1.2		1.304		8.8 { 898}	16.04					
1.3		0.027		1.408	9.2 { 938}	7.8 { 796}	13.61			
1.4				1.508	9.3 { 949}	7.9 { 806}	11.70			
1.5			1.612	9.8 { 1000}	8.2 { 836}	10.16				
1.6			1.712	8.3 { 847}	8.906					
1.7			0.029	1.814	4350	10 { 1020}	8.7 { 887}	7.871		
1.8		1.914	7.007							
1.9		0.030	2.018	11 { 1120}		9.1 { 928}	6.278			
2.0	2.118		9.2 { 938}	5.656						
2.1	2.220		9.5 { 968}	5.123						
2.2	0.032		2.322	12 { 1220}	9.8 { 1000}	4.662				
2.3	2.422		9.9 { 1010}		4.260					
2.4	0.033	2.526	10 { 1020}		3.908					
2.5		2.628	11 { 1120}		3.598					
2.6		2.728	3.324							
2.7		2.828	3.079							
2.8		2.928	2.861							
2.9	3.028	2.665								
3.0	3.128	2.489								
3.2	± 0.04	3.338	-	-	2.198					