

**Polyesteramide-imide enamelled round copper winding wires of class 1 (1AIW)**

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	2 000	-	-	2 647	15.0																			
0.11			0.150	0.162	2 200				2 153																		
0.12									0.172	0.182	2 400			1 786													
0.13														0.192	0.204				1 505								
0.14																			0.214	0.226				1 286			
0.15		0.236																						0.246			
0.16			0.256	0.266																							
0.17									0.278	0.288																	
0.18														0.298	0.310												
0.19																			0.320	0.330							
0.20		0.340																						0.352			
0.21			0.360	0.372																							
0.22									0.380	0.392																	
0.23														0.400	0.412												
0.24																			0.420	0.432							
0.25	0.440	0.452																								382.5	
0.26			± 0.01	0.010	0.310	2 800	3.5 { 357 }																			3.0 { 306 }	358.4
0.27					0.320		0.330		0.340				331.4														
0.28													0.330	0.340	0.352											307.3	
0.29																			0.340	0.352	0.372						285.7
0.30	0.372	0.402						0.424																			
0.32				0.449		0.479																					
0.35					0.520		0.560		0.620																		
0.37													0.620	0.672	0.724												
0.40																			0.724	0.776	0.830						
0.45	0.830	0.882						0.934																			
0.50				0.934		0.986																					
0.55					1.038		1.082		1.130																		
0.60													1.130	1.182	1.234												
0.65																			1.234	1.286	1.338						
0.70	1.338	1.390						1.442																			
0.75			1.442	1.494		1.546																					
0.80					1.546		1.600		1.652																		
0.85													1.652	1.706	1.758												
0.90																			1.758	1.810	1.862						
0.95	1.862	1.914						1.966																			
1.0			± 0.03	0.025		1.102																					
1.1					0.026	1.204	4 150		8.7 { 887 }	7.4 { 755 }	19.17																
1.2						0.027			1.304		8.8 { 898 }		16.04														
1.3									0.028		1.408		9.2 { 938 }	7.8 { 796 }	13.61												
1.4	0.029	1.508									9.3 { 949 }		7.9 { 806 }	11.70													
1.5		0.030		1.612									9.8 { 1001 }	8.2 { 836 }	10.16												
1.6				0.031	1.712									8.3 { 847 }	8.906												
1.7					0.032	1.814				4 350			10 { 1 020 }	8.7 { 887 }	7.871												
1.8						0.033			1.914						7.007												
1.9	0.034							2.018					11 { 1 120 }	9.1 { 928 }	6.278												
2.0		2.118						2.22						9.2 { 938 }	5.656												
2.1				2.322			2.422								9.5 { 969 }	5.123											
2.2					2.526					2.628					12 { 1 220 }	9.8 { 1 000 }	4.662										
2.3						2.728						2.828					9.9 { 1 010 }	4.260									
2.4	2.928								3.028									10 { 1 020 }	3.908								
2.5		3.128	3.338								13 { 1 330 }						11 { 1 120 }	3.598									
2.6				3.338														3.324									
2.7																		3.079									
2.8																		2.861									
2.9																		2.665									
3.0																		2.489									
3.2																		2.198									