

**Power Wirewound resistors
flame retardant, safety version**
Specification

Type		253-4	254-4	256-4	257-4
Power rating P_{40} P_{70}	W	2,5 2,0	3,0 2,5	4,0 3,5	5,0 4,3
Resistance range		see Page 2			
E-series		E 24			
Tolerance	%	± 5			
Temperature coefficient	$10^{-6} * K^{-1}$	120^{+50}			
max. cont. working voltage	V_{RMS}	$\sqrt{P_{70} \cdot R}$			
Insulation voltage (1min.)	V_{RMS}	max. 75V			
Insulation resistance	Ω	not insulated			
Derating linear	$^{\circ}C$	70 ... 350 (0W)			
Climatic category		55/200/56			
Temperature range	$^{\circ}C$	- 55 ... 350			
Thermal resistance	KW^{-1}	140	112	80	65
Failure rate (Total, ϑ_0 max., 60% conf. lev.)	$10^{-9} * h^{-1}$	appr. 10, depends on value			
Endurance (P_{70} , 70 $^{\circ}C$, 1000h)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 5,0$ average			
Damp heat, steady state (40 $^{\circ}C$, 93% r. h., 56d)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 5,0$			
Climatic sequence (IEC 115-1/23)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 2,0$			
Resistance to soldering heat (260 $^{\circ}C$, 10s, 3mm)	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 0,5$			
Solderability	s	2,5 Flowtime, solderglobule test, IEC 60068-2-20			
Terminal strength	$\left[\frac{\Delta R}{R} \right] \%$	$\pm 0,2$			
Terminal tensile strength	N	50			
Marking		printed in clear			

Type	Resistance range	
	min.	max.
253-4	* 1R0	330R
254-4	* 1R0	330R
256-4	* 1R0	330R
257-4	* 1R0	330R

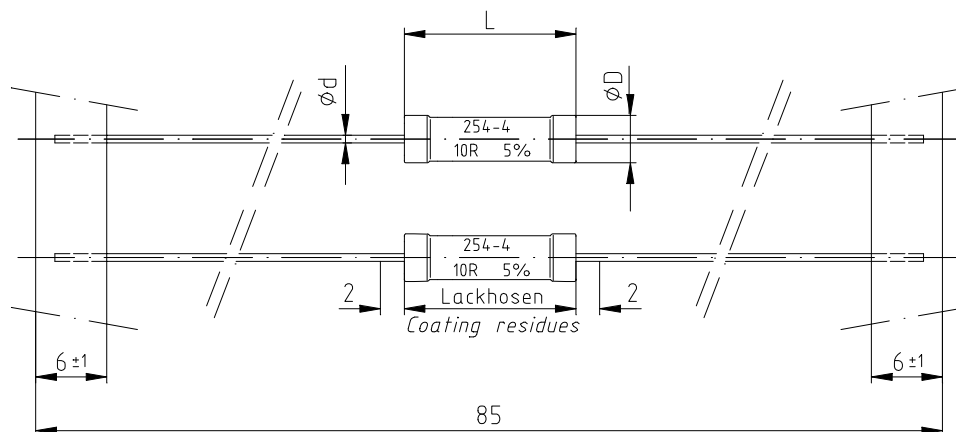
Note:

The special construction of resistance values $\geq 10R$ results in an immediate interruption when mains voltage (220V/240V_{RMS}) is applied. No flames, no explosion. After fusing the resistance value is $> 100K\Omega$. For other voltages test suitability in the application!

* Resistance values $< 10R$ are flame retardant.

The interruption mechanism is not clearly defined and has to be tested in the final application!

Dimensions in mm:



Type	L max.	ØD max.	ød
253-4	14,5	4,0	0,65
254-4	12,6	6,0	0,80
256-4	17,0	6,0	0,80
257-4	19,0	8,5	0,80

Series CRF

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Packaging:

Type	Packaging	Pieces	Pack.-Code
253-4	taped/Ammopack	1000	T
254-4	taped/Ammopack	1000	T
256-4	taped/Ammopack	1000	T
257-4	taped/Ammopack	500	T

Ordering example: CRF 254-4 5 T 15R
 Type Tolerance Pack.-Code R-Value