

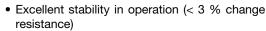


# Wirewound Resistors, Industrial Power, Vitreous Coated, Fixed Edgewound Tubular



#### **FEATURES**

- · High temperature vitreous coating
- Complete welded construction



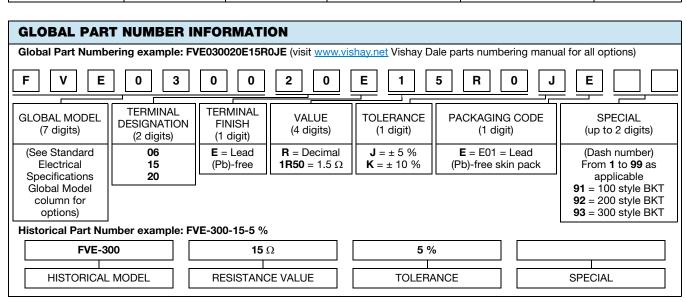
Material categorization:
 For definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>



ROHS COMPLIANT HALOGEN FREE

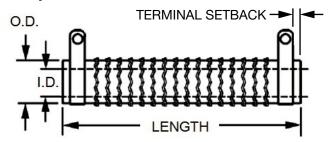
FREE GREEN (5-2008)

STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	HISTORICAL MODEL	POWER RATING  P <sub>25 °C</sub> W	RESISTANCE RANGE Ω ± 5 %	RESISTANCE RANGE Ω ± 10 %	WEIGHT (typical) g
FVE0050	FVE-50	50	1 to 4.1	0.1 to 4.1	18
FVE0090	FVE-90	90	1 to 14.1	0.1 to 14.1	36
FVE0100	FVE-100	100	1 to 12.2	0.1 to 12.2	41
FVE0110	FVE-110	110	1 to 15.4	0.1 to 15.4	49
FVE0120	FVE-120	120	1 to 18.4	0.1 to 18.4	54
FVE0155	FVE-155	155	1 to 22.4	0.1 to 22.4	129
FVE0240	FVE-240	240	1 to 44.75	0.1 to 44.75	186
FVE0300	FVE-300	300	1 to 62.5	0.1 to 62.5	236
FVE0375	FVE-375	375	1 to 80.5	0.1 to 80.5	286
FVE0420	FVE-420	420	1 to 92	0.1 to 92	320



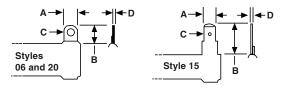
# Vishay Huntington

#### **DIMENSIONS** in inches [millimeters]



	DIMENSIONS in inches [millimeters]							
MODEL	CORE DIMENSIONS				DISTANCE	TERMINAL DESIGNATION		
	LENGTH	O.D.	I.D.	TERMINAL SETBACK	BETWEEN TERMINALS (REF.)	STANDARD	OPTIONAL (QUICK CONNECT)	BRACKET TYPES
FVE0050	2.000 [50.8]	0.750 [19.05]	0.500 [12.70]	0.086 [2.18]	1.328 [33.73]	06	15	101, 203, 301
FVE0090	4.000 [101.6]	0.563 [14.30]	0.313 [7.95]	0.094 [2.39]	3.312 [84.12]	06	15	101, 203, 301
FVE0100	3.500 [88.90]	0.750 [19.05]	0.500 [12.70]	0.079 [2.01]	2.842 [72.19]	06	15	102, 206, 303
FVE0110	4.000 [101.6]	0.750 [19.05]	0.500 [12.70]	0.125 [3.18]	3.250 [82.55]	06	15	102, 206, 303
FVE0120	4.500 [114.3]	0.750 [19.05]	0.547 [13.89]	0.125 [3.18]	3.750 [95.25]	06	15	102, 206, 303
FVE0155	4.500 [114.3]	1.125 [28.58]	0.750 [19.05]	0.282 [7.16]	3.436 [87.27]	20	15	103, 205, 303
FVE0240	6.500 [165.1]	1.125 [28.58]	0.750 [19.05]	0.250 [6.35]	5.376 [136.6]	20	15	103, 205, 303
FVE0300	8.500 [215.9]	1.125 [28.58]	0.750 [19.05]	0.267 [6.78]	7.342 [186.5]	20	15	103, 205, 303
FVE0375	10.500 [266.7]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	9.344 [237.3]	20	15	103, 205, 303
FVE0420	11.375 [288.9]	1.125 [28.58]	0.750 [19.05]	0.266 [6.76]	10.219 [259.6]	20	15	103, 205, 303

#### **TERMINAL DIMENSIONS**



DIMENSIONS	TERMINAL STYLE				
DIMENSIONS	06	15	20		
A	0.250	0.250	0.375		
	[6.35]	[6.35]	[9.53]		
В	0.563	0.594	0.625		
	[14.29]	[15.08]	[15.88]		
C	0.166	0.065	0.196		
(HOLE DIAMETER)	[4.22]	[1.65]	[4.98]		
D	0.020	0.031	0.196		
	[0.51]	[0.79]	[4.98]		



# Vishay Huntington

#### **MATERIAL SPECIFICATIONS**

Element: Copper-nickel alloy or nickel-chrome alloy,

depending on resistance value

Core: Ceramic, steatite or cordierite

Coating: Special high temperature vitreous

Standard Terminals: Tinned alloy 42

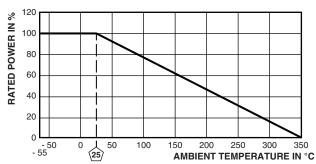
Optional Terminals (Quick Connect): Alloy 42

Terminal Bands: Alloy 42

Part Marking: HEI, model, wattage, value, tolerance, date

code

#### **DERATING**



TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	FVE RESISTOR CHARACTERISTICS		
Temperature Coefficient	ppm/°C	$\pm$ 260 for 20 $\Omega$ and above, $\pm$ 400 for 1 $\Omega$ to 19.99 $\Omega,$ special TC's available please contact factory		
Short Time Overload	-	10 x rated power for 5 s		
Dielectric Withstand Voltage	V <sub>AC</sub>	1000, from terminal to mounting hardware		
Maximum Working Voltage	V	$(P \times R)^{1/2}$		
Operating Temperature Range °C		- 55 to + 350		



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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