

Bulbous Heat Shrink Boots: Lipped, Right Angle



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Bulbous heat shrink boots with a right angle transition and has a lipped features. Use in conjunction with TE adapters to provide strain relief for harness systems using circular connectors. Boot is compatible with all grooved adapters of the appropriate shell size.



Body Orientation: **Right Angle**
Molded Part Shape Code: **222**
Lipped: **Yes**
Material Code: **25**
Material Systems Code: **25**

Features

Reference Number

TE Internal Number	CAT-R21-73106549
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Configuration Features

Lipped	Yes
Adhesive Requirement	Adhesive Precoat, Adhesive Purchased Separately

Body Features

Primary Product Material	Fluid Resistant Modified Elastomer, Low Fire Hazard Material, Modified Fluoro-Elastomer, Polyolefin Flexible Modified, Semi-Rigid Modified Polyolefin
Material Code	3, 4, 12, 25, 100
Material Systems Code	10, 100, 200, 25

Housing Features

Body Orientation	Right Angle
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Dimensions

Compatible Cable Diameter Range (mm)	5.6 - 13, 5.6 - 12.4, 5.9 - 14, 6.6 - 14.7, 7.1 - 16, 8.4 - 19, 8.4 - 18.5, 9.9 - 22.1, 9.9 - 22, 10.4 - 23.4, 10.4 - 24, 14.2 - 30, 15.7 - 35, 15.7 - 35.3, 16.8 - 38, 17.9 - 31, 18 - 31, 20.3
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	- 45.7, 22.4 - 36, 28.2 - 43, 35.1 - 52, 35.1 - 51.8, 35.1 - 60, 44.5 - 66, 60.5 - 81.8
Compatible Cable Diameter Range (in)	.22 - .488, .26 - .579, .331 - .728, .39 - .87, .41 - .94, .41 - .92, .56 - 1.18, .618 - 1.378, .618 - 1.39, .661 - 1.496, .7 - 1.22, .799 - 1.799, .88 - 1.42, 1.11 - 1.69, 1.38 - 2.36, 1.38 - 2.04, 1.38 - 2.05, 1.75 - 2.6, 2.38 - 3.22, 5.6 - 14, 5.9 - 14, 5.9 - 15, 7.1 - 17, 8.4 - 20, 9.9 - 23, 9.9 - 22, 19 - 31
Connector or Backshell Outside Diameter (mm)	12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 43, 46, 49, 52, 55, 58, 61, 64
Connector or Backshell Outside Diameter (in)	.47, .55, .62, .63, .71, .79, .87, .94, 1.02, 1.1, 1.18, 1.26, 1.34, 1.41, 1.42, 1.5, 1.57, 1.7, 1.81, 1.93, 2.04, 2.05, 2.16, 2.28, 2.4, 2.52
Compatible Cable Diameter (Max) (mm)	6, 7, 8, 9, 10, 11, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36
Compatible Cable Diameter (Max) (in)	.23, .24, .27, .28, .31, .314, .317, .35, .354, .39, .43, .47, .55, .63, .71, .78, .86, .94, 1.02, 1.1, 1.18, 1.25, 1.3, 1.33, 1.41, 43, 55, 71
Expanded Inside Diameter (Min) (mm)	23.4, 24, 28.4, 30, 31, 36, 43, 51.8, 52, 60, 66, 81.8
Expanded Inside Diameter (Min) (in)	.92, .945, 1.12, 1.18, 1.22, 1.42, 1.69, 2.04, 2.05, 2.36, 2.6, 3.22

Usage Conditions

Flammability Performance	Flame-Retardant, Low Fire Hazard
Operating Temperature Range (°C)	-75 - 150, -67 - 392, -55 - 135, -30 - 105
Operating Temperature Range (°F)	-103 - 302, -67 - 275, -22 - 221
Resistance Protection	Long-Term Fluid Exposure at High Temperatures, Long-Term Fluid Immersion at High Temperatures, Occasional Fluid Exposure

Industry Standards

Compatible With Approved Standards Products	BR1326 listed Class G, BS-G-198-5-DA, BS-G-198-5-DD, BS-G-198-5-DE, BS-G-198-5-DF, DEF Std 59-97 Issue 3 Type DA, DEF Std 59-97 Issue 3 Type DD, DEF Std 59-97 Issue 3 Type DE, DEF Std 59-97 Issue 3 Type DF, IEC 62329-3-101, IEC 62329-3-102, MIS-34867, SAE AS81765/1 Type I, SAE AS81765/1 Type II, SAE AS81765/4, SAE AS 85049/141, SAE AS I 81765/1, Type I, SAE AS I 81765/1, Type II, SAE AS I 81765
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	/4, UL 224, File E85381, VG95343 Part 18, VG95343 Part 6, VG95343 Parts 29 and 30, VG95343 Parts 6,7,8 and 9
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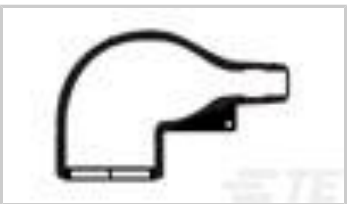
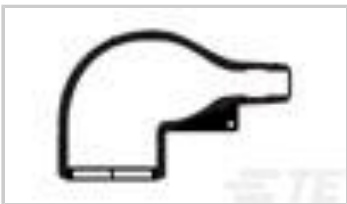
Other

Molded Part Shape Code	222, 222K, 222W
Adhesive Code	180, 184, 225, 42, 86

SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)



	222D142-25/42-0	222K142-25-CS-1858-0	222K163-25-0	222K174-100/184-0
TE Part #	673737-000	878513-008	878515-000	915007-000
Molded Part Shape Code	222	222	222	222
Material Code	25	25	25	100
Material Systems Code	25	25	25	100
Adhesive Requirement	Adhesive Precoat	Adhesive Precoat	Adhesive Purchased Separately	Adhesive Precoat
Operating Temperature Range	-75 - 150 °C	-75 - 150 °C	-75 - 150 °C	-30 - 105 °C
Resistance Protection	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures
Adhesive Code	42	42	42	184
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	EU ELV Compliant	EU ELV Compliant	Out of Scope for EU ELV	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM

***EU RoHS Directive 2011/65/EU**

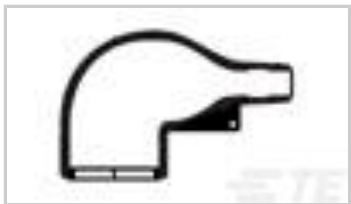
These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

****EU ELV Directive 2000/53/EC**

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Products (2 of 5)



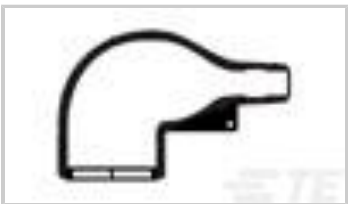
222K152-100-0



222D174-3/86-0



222D163-25/225-0



222K185-100/180-0

TE Part #	121717-000	115683-000	186917-000	118834-000
Molded Part Shape Code	222	222	222	222
Material Code	100	3	25	100
Material Systems Code	100	10	25	100
Adhesive Requirement	Adhesive Purchased Separately	Adhesive Precoat	Adhesive Precoat	Adhesive Precoat
Operating Temperature Range	-30 - 105 °C	-55 - 135 °C	-75 - 150 °C	-30 - 105 °C
Resistance Protection	Long-Term Fluid Exposure at High Temperatures	Occasional Fluid Exposure	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures
Adhesive Code	42	86	225	180
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	Out of Scope for EU ELV	EU ELV Compliant	Out of Scope for EU ELV	EU ELV Compliant
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM

*EU RoHS Directive 2011/65/EU

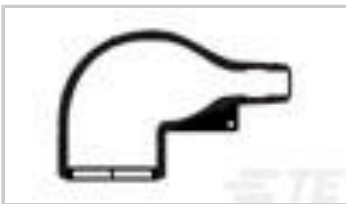
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Products (3 of 5)



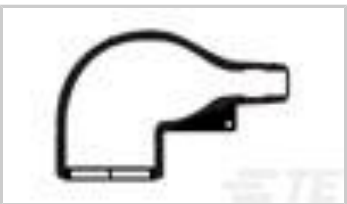
222K121-25/225-0



222D196-25/225-0



222D132-25/225-0



222K121-100-0

TE Part #	117451-000	204943-000	234461-000	007967-000
Molded Part Shape Code	222	222	222	222
Material Code	25	25	25	100
Material Systems Code	25	25	25	100
Adhesive Requirement	Adhesive Precoat	Adhesive Precoat	Adhesive Precoat	Adhesive Purchased Separately
Operating Temperature Range	-75 - 150 °C	-75 - 150 °C	-75 - 150 °C	-30 - 105 °C
Resistance Protection	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures
Adhesive Code	225	225	225	42
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM

*EU RoHS Directive 2011/65/EU

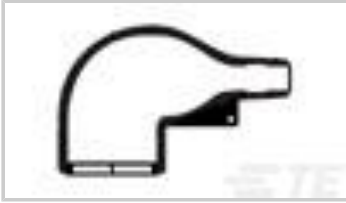
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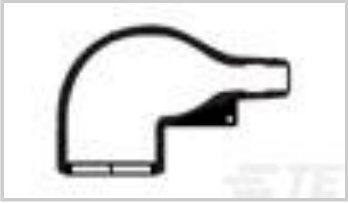
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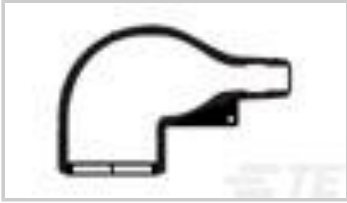
Products (4 of 5)



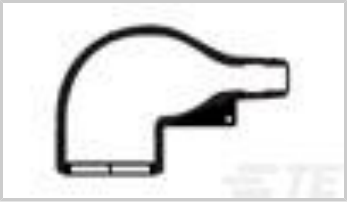
222K121-100/86-0



222K132-100/180-0



222K121-25/86-0



222K152-100/86-0

TE Part #	018671-000	022477-000	016942-000	043115-000
Molded Part Shape Code	222	222	222	222
Material Code	100	100	25	100
Material Systems Code	100	100	25	100
Adhesive Requirement	Adhesive Precoat	Adhesive Precoat	Adhesive Precoat	Adhesive Precoat
Operating Temperature Range	-30 - 105 °C	-30 - 105 °C	-75 - 150 °C	-30 - 105 °C
Resistance Protection	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Exposure at High Temperatures
Adhesive Code	86	180	86	86
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	Out of Scope for EU ELV	EU ELV Compliant	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM

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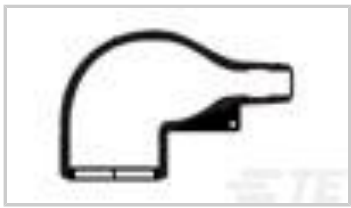
Products (5 of 5)



222D142-100-0



222D163-12-50-0



222K174-12-0



222D163-3/86-0

TE Part #	245829-000	276073-000	012760-000	094692-000
Molded Part Shape Code	222	222	222	222
Material Code	100	12	12	3
Material Systems Code	100	200	200	10
Adhesive Requirement	Adhesive Purchased Separately	Adhesive Purchased Separately	Adhesive Purchased Separately	Adhesive Precoat
Operating Temperature Range	-30 - 105 °C	-67 - 392 °C	-67 - 392 °C	-55 - 135 °C
Resistance Protection	Long-Term Fluid Exposure at High Temperatures	Long-Term Fluid Immersion at High Temperatures	Long-Term Fluid Immersion at High Temperatures	Occasional Fluid Exposure
Adhesive Code	42	42	42	86
EU ELV Compliance				
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV	Out of Scope for EU ELV
Product Families	RAYCHEM	RAYCHEM	RAYCHEM	RAYCHEM

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