

PIDG RING TONGUE TERMINALS



PIDG

TE Model # CAT-P592-R472A

TE Internal #: CAT-P592-R472A

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Terminals & Splices > Rings & Spades

Pre-Insulated Diamond Grip Ring Tongue Terminals



Barrel Type: **Closed Barrel**

Insulated: **Yes**

Features

Product Type Features

Terminal Features	Sheared
Shape Description	Circular/Oval, RING-041, RING-042, RING-043, RING-046, RING-059, RING-080, RING-092, SPADE-020
Stud Size	#0, #10, #12, #2, #4, #6, #8, 1, 1/2, 1/4, 3/4, 3/8, 5/16, 5/8, M12, M16, M2, M2.5, M3, M3.5, M4, M5, M6, M8
Barrel Type	Closed Barrel
Sealable	No
Insulated	Yes
Wire/Cable Type	Copper, Regular Wire
Support Style	Insulation Restriction, Insulation Support, Non - Insulation Support

Configuration Features

Number of Holes	1
Terminal Angle	90°, Straight

Electrical Characteristics

Voltage (Max) (V)	300, 600
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Body Features

Inspection Slot	No, No, Yes
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Insulation Sleeve Color Black, Blue, Green, Natural, Red, Yellow

Weight per Piece (g) .078, .155, .222, .23, .237, .249, .265, .282, .286, .287, .288, .289, .301, .302, .317, .322, .362, .406, .411, .45, .451, .468, .486, .499, .53, .532, .539, .549, .581, .588, .598, .6, .611, .622, .625, .637, .65, .658, .66, .662, .676, .7, .703, .705, .715, .722, .739, .747, .767, .769, .775, .78, .781, .782, .787, .789, .796, .805, .806, .81, .817, .818, .821, .826, .828, .83, .839, .84, .842, .843, .846, .847, .85, .851, .852, .856, .869, .87, .872, .876, .877, .881, .894, .904, .917, .919, .938, .939, .945, .95, .956, .957, .964, .967, .985, .986, .988, .99, .996, 1, 1.007, 1.013, 1.014, 1.016, 1.021, 1.026, 1.028, 1.031, 1.039, 1.048, 1.051, 1.075, 1.081, 1.085, 1.087, 1.091, 1.102, 1.114, 1.122, 1.123, 1.156, 1.159, 1.172, 1.213, 1.215, 1.217, 1.228, 1.23, 1.234, 1.235, 1.241, 1.244, 1.25, 1.256, 1.278, 1.305, 1.323, 1.363, 1.376, 1.379, 1.391, 1.392, 1.404, 1.408, 1.413, 1.448, 1.458, 1.459, 1.476, 1.48, 1.485, 1.49, 1.495, 1.503, 1.522, 1.542, 1.545, 1.58, 1.653, 1.658, 1.702, 1.871, 1.883, 1.919, 1.924, 10, 10.282, 12.088, 2.002, 2.004, 2.118, 2.131, 2.151, 2.192, 2.236, 2.24, 2.247, 2.251, 2.27, 2.279, 2.284, 2.294, 2.306, 2.314, 2.321, 2.338, 2.358, 2.369, 2.386, 2.393, 2.426, 2.427, 2.429, 2.438, 2.441, 2.442, 2.504, 2.53, 2.544, 2.563, 2.57, 2.571, 2.588, 2.6, 2.601, 2.656, 2.659, 2.691, 2.707, 2.737, 2.742, 2.752, 2.789, 2.795, 2.819, 2.826, 2.827, 2.838, 2.869, 2.88, 3, 3.018, 3.028, 3.087, 3.15, 3.166, 3.172, 3.186, 3.244, 3.249, 3.266, 3.345, 3.414, 3.415, 3.472, 3.485, 3.558, 3.648, 3.741, 3.75, 3.797, 3.95, 3.98, 4.32, 4.462, 4.504, 4.514, 4.889, 4.947, 5.307, 5.547, 5.962, 6.027, 7.09, 9.972

Stripe Color Black, Blue, Brown, Green, Red, White, Yellow

Plating Material Copper, Gold, Tin, Tin-Lead

Contact Features

Military Part Class Class I, Class II

Contact Base Material Copper (Cu)

Terminal & Splice Type Hook Tongue, Multiple Stud, Ring Tongue

Terminal Orientation Offset, Straight

Underplating Material Nickel



Mechanical Attachment

Wire Insulation Support	With
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Dimensions

Wire Size (AWG)	10, 12, 12 - 10, 14, 16, 16 - 14, 18, 20, 20 - 16, 22, 22 - 16, 24, 24 - 20, 26, 26 - 22, 26 - 24
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Wire Size (mm ²)	.1 - .4, .1 - .41, .12 - .15, .12 - .24, .12 - .32, .12 - .4, .129 - .326, .2 - .24, .2 - .517, .2 - .518, .2 - .6, .205 - .4, .205 - .518, .25 - 1.6, .26 - 1.42, .26 - 1.65, .3 - .4, .3 - 1.3, .3 - 1.42, .3 - 1.65, .326 - 1.31, .5 - .6, .5 - 1.31, .6, .8 - .9, .9 - .96, 1.04 - 2, 1.04 - 2.62, 1.04 - 2.64, 1.25 - 1.4, 1.25 - 2, 1.3 - 2, 1.31 - 2.08, 2 - 2.15, 2.26 - 6.64, 2.62 - 6.64, 2.7 - 6.6, 3 - 6, 3.3 - 5.3, 3.31, 3.31 - 5.26, 5 - 6
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Wire Size (CMA)	202 - 509, 202 - 810, 238 - 475, 304, 320 - 1290, 475, 509 - 3260, 754, 992 - 2800, 1186, 1900, 2050 - 5180, 2800, 4234, 5180 - 13100, 6654, 12066
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Stud Diameter (mm)	2.032, 2.18, 2.36, 2.84, 3.02, 3.023, 3.25, 3.51, 3.68, 4.17, 4.34, 4.82, 4.83, 5, 5.003, 5.0038, 5.2, 5.25, 5.26, 5.58, 5.66, 6.3, 6.35, 6.73, 7.92, 8.3, 8.33, 9.53, 9.906, 9.91, 12.7, 13.02, 13.08, 16.66, 19.05
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Stud Diameter (in)	.08, .086, .093, .112, .119, .128, .138, .145, .164, .171, .19, .191, .197, .2047, .205, .207, .22, .223, .248, .25, .264489, .265, .312, .327, .328, .375, .39, .5, .515, .656, .75
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Tongue Thickness (mm)	.46, .5, .64, .68, .686, .74, .77, .78, .787, .79, .84, .99, 1, 1.016, 1.02, 1.07, 1.219, 1.22, 1.27
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Tongue Thickness (in)	.018, .0197, .025, .027, .029, .03, .0305, .031, .033, .039, .0393, .04, .042, .048, .05
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Overall Length (mm)	1.296, 13.33, 13.36, 14.96, 15.6, 15.67, 16.33, 16.41, 16.97, 16.99, 17.07, 17.4, 17.86, 17.9, 18.6, 18.64, 18.644, 18.7, 18.77, 18.8, 18.9, 18.92, 19.4, 19.43, 19.431, 19.86, 19.88, 20.1, 20.24, 20.65, 20.67, 20.7, 20.85, 21.2, 21.44, 21.62, 21.8, 21.819, 21.82, 21.92, 21.94, 22.25, 23, 23.01, 24.2, 24.206, 24.21, 24.308, 26.19, 26.54, 26.568, 26.57, 26.6, 26.72, 27.38, 27.4, 27.5, 27.51, 27.68, 28.39, 28.83, 28.956, 28.96, 29, 29.159, 29.16, 29.2, 29.59, 29.74, 29.77, 30.18, 30.2, 30.94, 32.44, 32.5, 32.51, 32.512, 32.84, 32.9, 32.92, 33.58, 33.6, 33.83, 34.4, 35.18, 35.36, 35.58, 35.9, 35.91
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PIDG RING TONGUE TERMINALS

TE Model # CAT-P592-R472A
TE Internal #: CAT-P592-R472A



35.916, 35.92, 35.96, 35.97, 36, 36.4, 37.744,
37.85, 38.35, 38.38, 40.48, 40.49, 55.36,
56.36, 56.4, 58.62

Overall Length (in)	.051, .5248, .526, .589, .615, .617, .643, .646, .668, .6681, .6689, .669, .67, .672, .685, .703, .73, .731, .734, .736, .739, .74, .7402, .744, .745, .765, .782, .783, .792, .797, .8, .813, .814, .821, .833, .84, .844, .8441, .851, .859, .86, .863, .864, .876, .906, .91, .95, .953, .957, 1.03, 1.045, 1.046, 1.05, 1.052, 1.076, 1.078, 1.08, 1.083, 1.09, 1.12, 1.14, 1.148, 1.151, 1.165, 1.17, 1.171, 1.188, 1.1882, 1.19, 1.218, 1.2181, 1.277, 1.28, 1.292, 1.2929, 1.293, 1.296, 1.3, 1.32, 1.322, 1.33, 1.355, 1.39, 1.392, 1.41, 1.414, 1.42, 1.432, 1.486, 1.49, 1.51, 1.59, 1.594, 2.1795, 2.219, 2.22, 2.31
Barrel Inside Diameter (mm)	2.66, 3.886, 3.89 - 3.94, 5.97 - 6.05, 6.4, 6.43, 6.43 - 6.48, 6.43 - 6.68, 8
Barrel Inside Diameter (in)	.105, .128, .153, .153 - .155, .153 - .165, .235 - .238, .252, .253, .253 - .255, .253 - .263, .28, .315
Wire Insulation Diameter (Max) (mm)	1.397, 1.4, 2.032, 2.083, 2.54, 2.67, 2.79, 2.794, 3.18, 3.302, 3.56, 3.81, 4.318, 5.08, 5.588, 5.84, 6.35, 6.4, 7.62
Wire Insulation Diameter (Max) (in)	.055, .08, .082, .1, .105, .11, .125, .13, .14, .15, .17, .2, .22, .23, .25, .252, .3
Wire Insulation Diameter (mm)	.66 - 1.4, .787 - 1.397, .813 - 2.083, .97 - 2.79, 1.02 - 2.54, 1.17 - 2.79, 1.27 - 2.032, 1.27 - 2.083, 1.27 - 2.67, 1.422 - 2.794, 1.6 - 3.302, 1.981 - 3.302, 2.03 - 3.18, 2.032 - 3.81, 2.413 - 5.08, 2.667 - 3.556, 2.67 - 3.81, 2.68 - 3.81, 2.921 - 4.318, 3.023 - 5.08, 3.8 - 6.4, 3.81 - 5.588, 3.81 - 5.842, 3.81 - 6.35, 4.32 - 7.62
Wire Insulation Diameter (in)	.026 - .055, .031 - .055, .032 - .082, .038 - .11, .04 - .1, .046 - .11, .0499 - .1047, .05 - .08, .05 - .082, .05 - .105, .056 - .11, .063 - .13, .078 - .13, .08 - .125, .08 - .15, .095 - .2, .105 - .14, .105 - .15, .106 - .15, .1149 - .1696, .115 - .17, .119 - .2, .15 - .22, .15 - .23, .15 - .25, .15 - .252, .17 - .3

Usage Conditions

Operating Temperature Range (°C)	-40 - 105, 105, 150, 170, 288
Operating Temperature Range (°F)	-40 - 221, 221, 302, 338, 550

Operation/Application

Heavy Duty	No, Yes
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Industry Standards

Government Qualified	No, No, Yes
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Packaging Features

Packaging Quantity	1, 100, 1000, 1500, 15000, 2000, 25, 2500, 3500, 4000, 50, 500, 5000, 50000
Packaging Method	Box, Box & Carton, Loose Piece, Package, Reel, Tape & Reel, Tape Mounted

Other

Comment	#10 stud may be substituted., Available On-Tape for Automatic Termination., Heavy Duty for extra mechanical strength, Heavy duty for extra mechanical strength., Marking: Commercial 22-16- Military 22-18 in accordance with MIL-T-7928., Must be crimped with a 22-18 or 22-16 PIDG (red) tool., Oversize expansions provided in insulation only., Slightly larger than standard #4 stud hole. (.128in./3.25mm.), This is not a military qualified part.
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SEE PRODUCTS ON NEXT PAGE

PIDG RING TONGUE TERMINALS

TE Model # CAT-P592-R472A
TE Internal #: CAT-P592-R472A



Products (1 of 5)



TERMINAL,PIDG R IR 20 6



PIDG R 22-16 COMM 22-18 MIL 6



TERMINAL,PIDG R IR 14 3/8



TERMINAL,PIDG R 16-14 10

TE Model / Part #	2-36149-4	8-36149-1	2-320564-2	2-324533-2
Terminal & Splice Type	Ring Tongue	Ring Tongue	Ring Tongue	Ring Tongue
Wire Size	20 AWG	22 - 16 AWG	14 AWG	16 - 14 AWG
Stud Size	#6, M3.5	#6, M3.5	3/8	#10
Stud Diameter	3.68 mm	3.68 mm	9.53 mm	5 mm
Tongue Thickness	.79 mm	.79 mm	.79 mm	.79 mm
Terminal Orientation	Offset	Straight	Offset	Straight
Overall Length	17.07 mm	17.07 mm	32.512 mm	27.38 mm
Terminal Angle	Straight	Straight	Straight	Straight
Sealable	No	No	No	No
Plating Material	Copper, Tin	Copper, Tin	Copper, Tin	Copper, Tin
Operating Temperature Range	105 °C	105 °C	105 °C	105 °C
Wire/Cable Type	Regular Wire	Regular Wire	Regular Wire	Regular Wire
Support Style	Insulation Restriction	Insulation Restriction	Insulation Restriction	Insulation Support
Wire Insulation Diameter (Max)	2.79 mm	3.18 mm	3.302 mm	4.318 mm
Wire Insulation Diameter	1.17 - 2.79 mm	2.03 - 3.18 mm	1.981 - 3.302 mm	2.921 - 4.318 mm
Heavy Duty	No	No	No	No
Packaging Method	Loose Piece	Loose Piece	Loose Piece	Tape Mounted
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	EU ELV Compliant	EU ELV Compliant
Series	PIDG	PIDG	PIDG	PIDG

*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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PIDG RING TONGUE TERMINALS

TE Model # CAT-P592-R472A
TE Internal #: CAT-P592-R472A



Products (2 of 5)



TERMINAL,PIDG R 16-14HD
8

TERMINAL,PIDG R IR 20 10

TERMINAL,PIDG R IR 10 3/8

TERMINAL,PIDG R 12-10 10

TE Model / Part #	2-35106-1	2-36153-8	2-320577-2	2-323762-1
Terminal & Splice Type	Ring Tongue	Ring Tongue	Ring Tongue	Ring Tongue
Wire Size	16 - 14 AWG	20 AWG	10 AWG	12 - 10 AWG
Stud Size	#8, M4	#10	3/8	#10
Stud Diameter	4.34 mm	5 mm	9.53 mm	5 mm
Tongue Thickness	.79 mm	.79 mm	.79 mm	.79 mm
Terminal Orientation	Offset	Straight	Offset	Straight
Overall Length	26.57 mm	23.01 mm	37.744 mm	30.18 mm
Terminal Angle	Straight	Straight	Straight	Straight
Sealable	No	No	No	No
Plating Material	Copper, Tin	Copper, Tin	Copper, Tin	Copper, Tin
Operating Temperature Range	105 °C	105 °C	105 °C	105 °C
Wire/Cable Type	Regular Wire	Regular Wire	Regular Wire	Regular Wire
Support Style	Insulation Support	Insulation Restriction	Insulation Restriction	Insulation Support
Wire Insulation Diameter (Max)	6.35 mm	2.79 mm	5.08 mm	5.84 mm
Wire Insulation Diameter	3.81 - 6.35 mm	1.17 - 2.79 mm	3.023 - 5.08 mm	3.81 - 5.842 mm
Heavy Duty	Yes	No	No	No
Packaging Method	Tape Mounted	Tape Mounted	Loose Piece	Loose Piece
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	EU ELV Compliant	EU ELV Compliant
Series	PIDG	PIDG	PIDG	PIDG

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PIDG RING TONGUE TERMINALS

TE Model # CAT-P592-R472A
TE Internal #: CAT-P592-R472A



Products (3 of 5)



PIDG R 22-16 COMM 22-18 MIL 6



TERMINAL, PIDG R 22-16 4



TERMINAL, PIDG R IR 14 5/16



TERMINAL, PIDG R IR 10 8

TE Model / Part #	8-36150-1	2-320882-1	2-320575-3	2-320568-3
Terminal & Splice Type	Ring Tongue	Ring Tongue	Ring Tongue	Ring Tongue
Wire Size	22 - 16 AWG	22 - 16 AWG	14 AWG	10 AWG
Stud Size	#6, M3.5	#4, M2.5	5/16, M8	#8, M4
Stud Diameter	3.68 mm	3.02 mm	7.92 mm	4.17 mm
Tongue Thickness	.79 mm	.79 mm	.79 mm	.79 mm
Terminal Orientation	Straight	Offset	Straight	Offset
Overall Length	17.07 mm	16.99 mm	29 mm	29.159 mm
Terminal Angle	Straight	Straight	Straight	Straight
Sealable	No	No	No	No
Plating Material	Copper, Tin	Copper, Tin	Copper, Tin	Copper, Tin
Operating Temperature Range	105 °C	105 °C	105 °C	105 °C
Wire/Cable Type	Regular Wire	Regular Wire	Regular Wire	Regular Wire
Support Style	Insulation Support	Insulation Support	Insulation Restriction	Insulation Restriction
Wire Insulation Diameter (Max)	3.56 mm	3.56 mm	3.302 mm	5.08 mm
Wire Insulation Diameter	2.667 - 3.556 mm	2.667 - 3.556 mm	1.981 - 3.302 mm	3.023 - 5.08 mm
Heavy Duty	No	No	No	No
Packaging Method	Loose Piece	Tape Mounted	Box	Loose Piece
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	EU ELV Compliant	EU ELV Compliant
Series	PIDG	PIDG	PIDG	PIDG

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PIDG RING TONGUE TERMINALS

TE Model # CAT-P592-R472A
TE Internal #: CAT-P592-R472A



Products (4 of 5)



TERMINAL, PIDG R 12-10 6-8-10

TERMINAL, PIDG R 12-10 5/8

N PIDG RING 16-14 HD 8

PIDG 12-10 R 3/8; TAPE

TE Model / Part #	54773-1	324615	1-320627-0	1-35478-0
Terminal & Splice Type	Multiple Stud	Ring Tongue	Ring Tongue	Ring Tongue
Wire Size	12 - 10 AWG	12 - 10 AWG	16 - 14 AWG	12 - 10 AWG
Stud Size	#10	5/8, M16	#8, M4	3/8
Stud Diameter	4.17 mm	16.66 mm	4.17 mm	9.91 mm
Tongue Thickness	.77 mm	.79 mm	.79 mm	.79 mm
Terminal Orientation	Offset	Straight	Offset	Offset
Overall Length	29.59 mm	55.36 mm	26.568 mm	38.35 mm
Terminal Angle	Straight	Straight	Straight	Straight
Sealable	No	No	No	No
Plating Material	Copper, Tin	Copper, Tin	Copper, Tin	Copper, Tin
Operating Temperature Range	105 °C	105 °C	105 °C	105 °C
Wire/Cable Type	Regular Wire	Regular Wire	Regular Wire	Regular Wire
Support Style	Insulation Support	Insulation Support	Insulation Support	Insulation Support
Wire Insulation Diameter (Max)	5.84 mm	5.84 mm	5.84 mm	7.62 mm
Wire Insulation Diameter	3.81 - 5.842 mm	3.81 - 5.842 mm	3.81 - 5.842 mm	4.32 - 7.62 mm
Heavy Duty	No	No	Yes	No
Packaging Method	Box	Loose Piece	Tape Mounted	Tape Mounted
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	EU ELV Compliant	EU ELV Compliant
Series	PIDG	PIDG	PIDG	PIDG

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Products (5 of 5)



TERMINAL,PIDG R 12-10 10

TERM PIDG R 12-10 6 90DEG

PIDG R 22-16 COMM 22-18MIL 1/4

N PIDG RING 22-16 2

TE Model / Part #	8-36161-2	696020-1	55936-2	2-328657-1
Terminal & Splice Type	Ring Tongue	Ring Tongue	Ring Tongue	Ring Tongue
Wire Size	12 - 10 AWG	12 - 10 AWG	22 - 16 AWG	22 - 16 AWG
Stud Size	#10	#6, M3.5	M6	#2, M2
Stud Diameter	5 mm	3.68 mm	6.73 mm	2.36 mm
Tongue Thickness	.99 mm	1.02 mm	.79 mm	.79 mm
Terminal Orientation	Straight	Straight	Straight	Straight
Overall Length	27.51 mm		27.38 mm	17.07 mm
Terminal Angle	Straight	90°	Straight	Straight
Sealable	No	No	No	No
Plating Material	Copper, Tin	Copper, Tin	Tin	Copper, Tin
Operating Temperature Range	105 °C	105 °C	105 °C	105 °C
Wire/Cable Type	Regular Wire	Regular Wire	Regular Wire	Regular Wire
Support Style	Insulation Restriction	Insulation Support	Insulation Support	Insulation Support
Wire Insulation Diameter (Max)	5.84 mm	6.35 mm	3.18 mm	3.18 mm
Wire Insulation Diameter	3.81 - 5.842 mm	3.81 - 6.35 mm	2.03 - 3.18 mm	2.03 - 3.18 mm
Heavy Duty	No	Yes	No	No
Packaging Method	Loose Piece	Loose Piece	Tape Mounted	Tape Mounted
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	EU ELV Compliant	EU ELV Compliant
Series	PIDG	PIDG	PIDG	PIDG

*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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.

Related Materials

Data Sheet

[PIDG TERMINALS & SPLICES Quick Reference Guide](#)

English

Data Sheet

[Standard Terminals & Splices](#)

English

Also in the Series | PIDG



Compression Connectors(17)



Crimp Terminal Housings(1)



Crimp Wire Pins, Tabs & Ferrules(41)



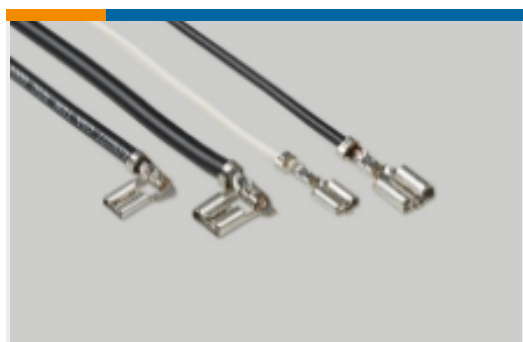
Knife Disconnects(11)



PCB Terminals(9)



Portable Crimp Tools(2)



Quick Disconnects(53)



Rings & Spades(862)



Special Purpose Terminals(1)



Splices(48)