TE connectivity

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31890 Product Details

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31890

TE Internal Number: 31890

✔ Active

View 3D PDF

Ring and Spade Tongue Terminals

🍃 Always EU RoHS/ELV Compliant (Statement of Compliance)

Product Highlights:
- Terminal Shape = Ring Tongue
- Receptacle Style = Straight
- Body Style = PIDG
- Barrel Type = Closed Barrel
- Wire/Cable Type = Regular Wire

View all Features

Quick Links
- ▶ Pricing & Availability
- ▶ Search for Tooling
- ▶ Product Feature Selector
- ▶ Contact Us About This Product

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Documentation & Additional Information

Product Drawings:
- TERMINAL, RING TONGUE, PIDG, WIRE SIZE, 22-16 AWG (PDF, English)

Catalog Pages/Data Sheets:
- None Available

Product Specifications:
- None Available

Application Specifications:
- Pre-Insulated Diamond Grip (PIDG) Terminals, Splices... (PDF, English)

Instruction Sheets:
- None Available

CAD Files: (CAD Format & Compression Information)
- 2D Drawing (DXF, Version AF)
- 3D Model (IGES, Version AF)
- 3D Model (STEP, Version AF)

Related Products:
- Tooling

List all Documents

Product Features (Please use the Product Drawing for all design activity)

Product Type Features:
- Terminal Shape = Ring Tongue
- Receptacle Style = Straight
- Barrel Type = Closed Barrel
- Wire/Cable Type = Regular Wire
- Insulation = Yes
- Insulation Support = Insulation Support
- Stud Diameter (mm [in]) = 4.17 [0.164]
- Stud Size = 8 [M4]
- Shape = RING-041
- Heavy Duty = No
- Finish = Tin
- Color = Red

Electrical Characteristics:
- Voltage (VAC) = 300

Termination Features:
- Wire/Cable Size (CMA) = 509 – 3,260

Dimensions:
- Insulation Diameter (mm [in]) = 3.56 [.140] Max.

Body Features:
- Body Style = PIDG
- Wire Range (mm [AWG]) = 0.30-1.40² [22-16]
- Material = Copper
- Tongue Material Thickness (mm [in]) = 0.84 [0.033]
- Insulation Material = Nylon
- Insulation Sleeve Material = Nylon

Contact Features:
- Class = 1 & 2

Industry Standards:
- Government/Industry Qualification = Yes
- Government/Industry Part Number = MS25036-149
- RoHS/ELV Compliance = RoHS compliant, ELV compliant
- Lead Free Solder Processes = Not relevant for lead free process
- RoHS/ELV Compliance History = Always was RoHS compliant

Conditions for Usage:
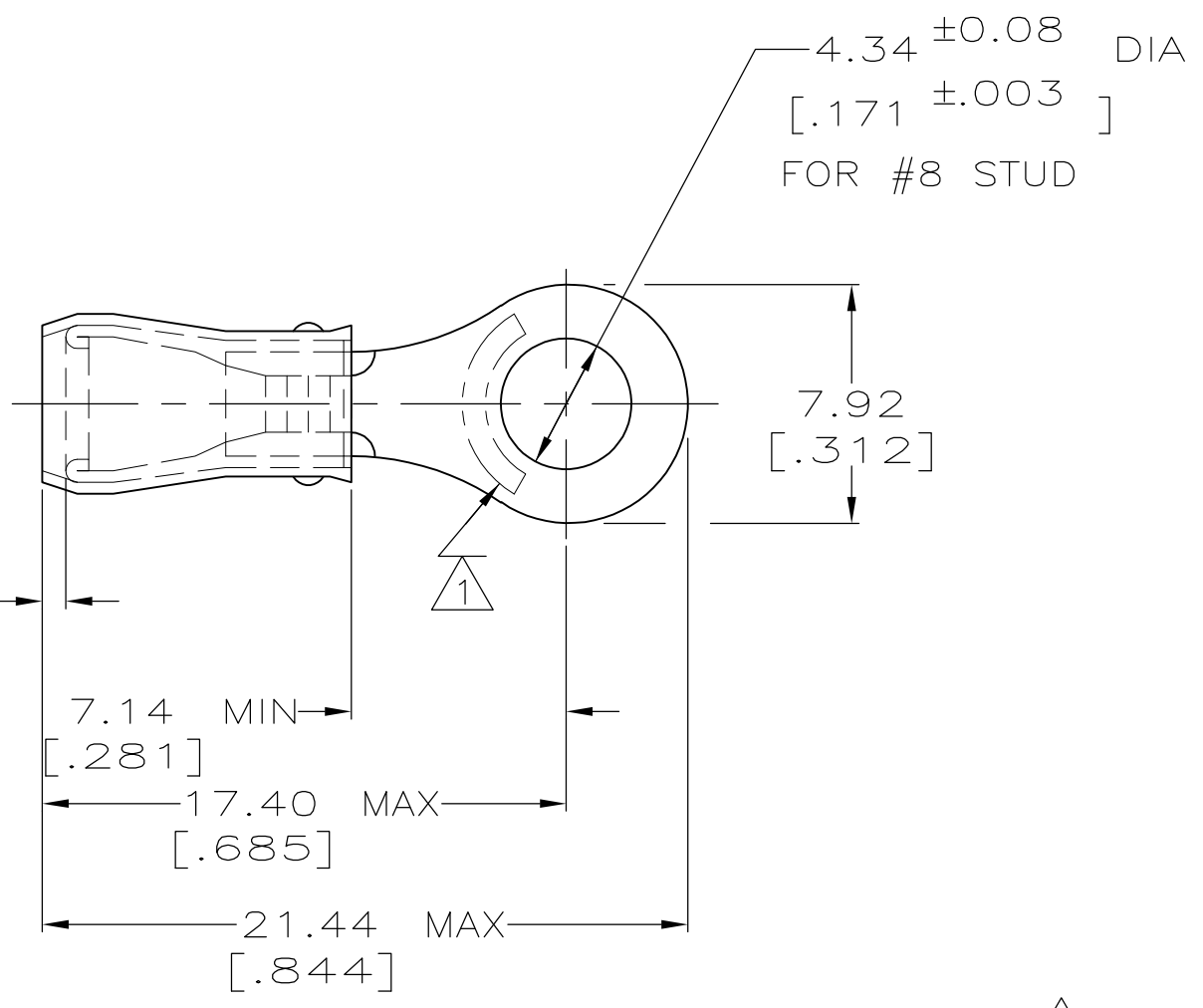- Temperature Range (°C) = 105

Packaging Features:
- Packaging Method = Loose Piece

Other:
- Brand = AMP
- Comment = Available On-Tape for Automatic Termination.

LOC	DIST			REVISIONS			
G	14	P	LTR	DESCRIPTION	DATE	DWN	APVD
		V2	REVISED PER ECO-13-013734	28AUG2013	KH	DR

AMP WIRE RANGE	Listed	LR7189 Certified
22-16 AWG SOLID OR STRANDED	22-16 AWG SOLID OR STRANDED	22-16 AWG SOLID OR STRANDED

4.34 ±0.08 DIA
[.171 ±.003]
FOR #8 STUD

7.92
[.312]

0.79 MIN
[.031]

7.14 MIN
[.281]

17.40 MAX
[.685]

21.44 MAX
[.844]

△1   STAMP AMP 22-18* APPROX AS SHOWN
22-16 TERMINALS ARE STAMPED 22-18 IN
ACCORDANCE WITH MILITARY SPEC MIL-T-7928
COMMERCIAL WIRE RANGE IS 22-16

2   WIRE INSULATION DIA: .105 - .140

3   TONGUE MATERIAL THK: $0.79^{±0.05}$ [$.031^{±.002}$]

△4   SUPERSEEDED BY 8-31890-1

△4	MILITARY P/N AND CLASS	QUANTITY	PACKAGE TYPE	PART NO
	—	50	LOOSE PIECE, BAG	8-31890-5
	—	100	LOOSE PIECE, BOX	8-31890-1
	MS 25036-149 CLASS 2	5000	ON TAPE, REEL	2-31890-1
	MS 25036-149 CLASS 1 & 2	—	LOOSE PIECE	31890

AMP INCORPORATED
CUSTOMER SERVICE SYSTEMS

FOR ADDITIONAL PRODUCT INFORMATION OR COPIES OF DRAWINGS AND TECHNICAL DOCUMENTS	PRODUCT INFORMATION CENTER 1-800-522-6752
FOR APPLICATION TOOLING INFORMATION	TOOLING ASSISTANCE CENTER 1-800-722-1111
FOR ORDER ENTRY	1-800-526-5142

MAX RECOMMENDED OPERATING TEMPERATURE:
105°C MAX

VOLTAGE RATING:
300 V MAX

WIRE CROSS SECTIONAL AREA RANGE:
0.26-1.65mm² [509-3,260] CIR MILS
SOLID OR STRANDED

MATERIAL
COPPER PER ASTM B-152
SLEEVE, RED NYLON

FINISH
TIN PLATE
PER ASTM B545
.000100 MIN EXT. THK

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:
	0 PLC ± —
	1 PLC ± —
	2 PLC ± 0.20[.008]
	3 PLC ± —
	4 PLC ± —
	ANGLES ± —

DWN DK SCHRUM	02/11/93
CHK RE HERSEY	4/28/93
APVD ML ELLIS	4/28/93

PRODUCT SPEC
UL 486A

APPLICATION SPEC
NOT AVAILABLE

WEIGHT —

TE Connectivity

NAME
TERMINAL, RING TONGUE,
PIDG™ WIRE SIZE, 22-16 AWG

SIZE A3	CAGE CODE 00779	DRAWING NO C-31890	RESTRICTED TO —

CUSTOMER DRAWING

SCALE 4:1   SHEET 1 OF 1   REV V2

1470-19 (3/11)