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TE AMP DO BRASIL VARIATION

P/N.s INVOLVED:
 1-180984-0
 1-180984-1
 1-180984-2
 3-180984-0
 3-180984-1
 3-180984-2

TE AMP SPAIN VARIATION

P/N.s INVOLVED:
 7-180984-0
 7-180984-5

TE AMP GERMANY VARIATION

P/N.s INVOLVED:
 0-180984-0
 0-180984-1
 0-180984-5
 2-180984-0

STANDARD VERSION AND TE AMP ITALY PRODUCTION

P/N INVOLVED:
 8-180984-0
 8-180984-1
 8-180984-2

1) ADATTO PER TERMINALI FEMMINA FLAG FASTON 6.3 mm sr.
 Es.: P/N.s 180464-..., 280050-..., 282181-..., 282184-...
 (SUITABLE FOR FLAG FASTON .250" sr., RECEPTACLE CONTACTS
 Ex.: P/N.s 180464-..., 280050-..., 282181-..., 282184-...)

2) CONDIZIONE DI FORNITURA (SUPPLY CONDITION)

3) PRODUCT IN ACCORDANCE TO IEC 60335-1 NORM.

MANUFACTURING LOCATION CODE, OPTIONAL IDENTIFICATION CAN BE ... / ... / : / : -

TE TRADE MARK

OPTIONAL SHAPE FOR RIBS

OPTIONAL TE P/N

NOTE	COLORE (COLOUR)	MATERIALE (MATERIAL)	NUMERO (P/N)	REV
3	NATURALE (NATURAL)	PA 6 UNFILLED UL94-V2	8-180984-2	AZ
	NERO (BLACK)	PA 6.6 UL 94-V0	8-180984-1	AY
	NATURALE (NATURAL)		8-180984-0	AY
	NERO (BLACK)	PA 6.6 UNFILLED (UL 94-V2)	7-180984-5	AY
	NATURALE (NATURAL)	ULTRAMID A3W	7-180984-0	AY
	NATURALE (NATURAL)		2-180984-0	AY
	NERO (BLACK)	PA 6.6 UNFILLED (UL 94-V2)	1-180984-2	AY
	ROSSO (RED)		1-180984-1	AY
	NATURALE (NATURAL)		1-180984-0	AY
	NERO (BLACK)	UNFILLED (UL 94-V2)	0-180984-5	AY
ROSSO (RED)	0-180984-1		AY	
NATURALE (NATURAL)		0-180984-0	AY	

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN H. YAALI 18SEP2002

CHK C. TARTARI

APVD

PRODUCT SPEC 108-20109

APPLICATION SPEC

WEIGHT

CUSTOMER DRAWING

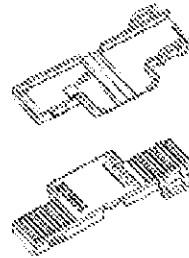
SCALE 3:1 SHEET 1 OF 1 REV AZ5

TE Connectivity

NAME FLAG FASTON BOOT .250 SERIES

SIZE A3 CAGE CODE 00779 C=180984 RESTRICTED TO

**FLAG FASTON BOOT FOR FASTON* Connector,
6.3 mm series FLAG RECEPTACLE CONTACT.**



1. SCOPE

This specification covers the performance requirements and test methods of the 1 way FLAG FASTON BOOT P/N 180984 and suitable FASTON* Connector, 6.3 mm series FLAG RECEPTACLE Contact P/N.s 280050, 282181, 180464, 282184 (see table on para. 2.7 for details)

In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence.

In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

For test reports contact Engineering.

2. REQUIREMENTS

2.1. Design and construction

Connectors shall be of the design, construction and physical dimensions specified on the applicable product drawings, called Customer drawing (C-TE AMP P/N).

2.2. Materials

Housing: Poliammide 6.6 unfilled natural, Poliammide 6.6 unfilled natural UL-94V0 (for P/N.s 8-180984-0 & 8-180984-1).

Receptacle contact: Tin plated Brass and Tin plated Phosphor Bronze.

Tab: Plain Brass (TE AMP P/N 140736-1)

2.3. Current Carrying Capacity

According to FIAT Norm 91107

6A for 0.5 mm² wire section

20A for 2.5 mm² wire section.

C	REVISED & RETYPED, ET00-0088-04	H.Y.	29 April 2004	C.T.	29 April 2004
rev letter	rev. record	DR	Date	CHK	Date
DR.		DATE	APVD		DATE
H. Yaali		02 April 2004	C. Tartari		02 April 2004

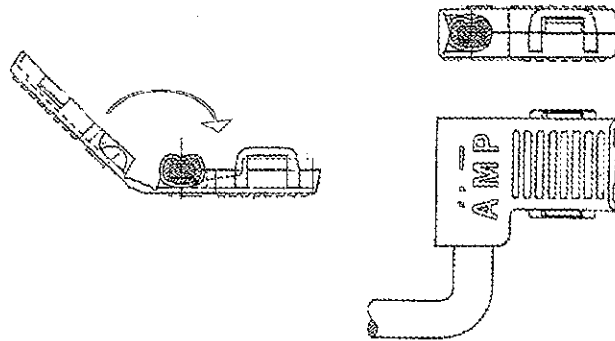
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2.4. Function

Insulation is guarantee by manual positioning of the crimped contact in it's appropriate boot location. Boot is manually closed until the complete fastening of the locking ears (see fig. 1)

Fig. 1



2.5. Temperature rating

Temperature rating shall be within the following range:

-25°C - +105°C

-25°C - +125°C for P/N 8-180984-0 & 8-180984-1.

2.6. Flammability

The housing material should pass the flammability test according to UL norm 94-V2 and 94-V0 (only for P/N.s 8-1809984-0 and 8-180984-1).

2.7. TE AMP P/N.s table with description and wire range.

TE AMP BASE P/N.s	DESCRIPTION	WIRE RANGE
C-280050	6.3mm srs. FLAG FASTON Rec. Ctc.	0.5-1.5mm ² std. Ins. wire
C-282181	6.3mm srs. FLAG FASTON Rec. Ctc.	0.5-1.5mm ² , rid. ins. wire
C-180464	6.3mm srs. FLAG FASTON Rec. Ctc.	1.0-2.5mm ² std. Ins. wire
C-282184	6.3mm srs. FLAG FASTON Rec. Ctc.	1.0-2.5mm ² , rid. ins. wire

3.2. Electrical requirements

TEST DESCRIPTION	PROCEDURE		REQUIREMENT
3.2.1. Millivolt drop specified current	As per Fig. 3 page 5		Max. value (mV/A) 3.6 3.0 2.6 2.4 2.2
	Wire size (mm ²)	Test current (A)	
	0.5	5	
	0.75-0.8	8	
	1.0	10	
	1.5	14	
2.5	20		
3.2.2. Current overload	For 1 hour apply a current of 1.5 times the one specified at point 3.2.1. Use plain tab contact and receptacle located into the boot.		No deformation, colour modification and other damage. Max. millivolt increase permitted = 50% the one specified on para. 3.2.1
3.2.3. Thermal cycling	Subject mated connectors to 5 cycles. Each cycle consists of: <ul style="list-style-type: none"> • 2 hrs at +105°C ±2°C • 2 hrs at +40°C ±2°C at 90-95% RH. • 2 hrs at -40°C ±2°C (Use plain tab contact) 		Mechanical requirements: As specified on para. 3.1. Millivolt drop: Max. increase permitted = 100% the requirement specified in para 3.2.1.
3.2.4. Insulation resistance	Put in touch externally the Rec. contact Loaded into housing and mated with plain test tab, to an metallic element. 500 Vcc, hold 1 minute		≥10 MΩ
3.2.5. Dielectric withstanding voltage	Put in touch externally the Rec. contact Loaded into housing and mated with plain test tab, to an metallic element.		≥1500 V for 1 minute
3.2.6. Accelerated ageing	To be performed only on insulated contact. 200 hours at 90°C ±2°C & 200 hours at 125°C ±2°C (for P/N.s 180984-80 and 180984-81)		No deformation or cracks are permissible, but only pigment change. Max. millivolt increase permitted = 50% the one specified on para. 3.2.1 Mechanical performance as specified in para 3.1.4.

3.3. Environmental requirements

3.3.1. Corrosion, salt spray	Subject mated connector to 72 hours at 5% NaCl concentration.	Max. millivolt increase permitted = 50% the one specified on para. 3.2.1
3.3.2. Vibration	According to FIAT Norm 7. Z8510 Use connector mated with plain test tab 8 hours for each axis frequency: 10-200-10 Hz Amplitude: 2 mm (peak to peak) Sweep rate: 1/8 per minute Acceleration: 3g over 28Hz	Millivolt drop as per para. 3.2.1 requirements. And mechanical performance as per para. 3.1.1 and 3.1.2.

4. QUALIFICATION

When all the tests have been successfully performed on the subject product line, the product is qualified according to the present specification.

Fig. 3

ARRANGEMENT FOR THE VOLTAGE DROP MEASUREMENT FOR RECEPTACLES

