INTERNAL CABLING

REV.	DRAWN BY - DATE	MEC. CHECK - DATE	ELEC. CHECK - DATE	SYS. CHECK - DATE	P.A. CHECK - DATE	C. of C. CHECK - DATE	CHANGE AUTHORITY
						08/03/09	
			03/06/2009	08/06/2009	09.09.2009		
/	B.SCOTTI 8/6/2009		A.SALVADORI	C.VETTORE	C. Cremonesi	C.CINQUEPALMI	

DRAWING TITLE

AMS TCS

Cab Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	DRAWING NUMBER	REV.
48-AMS02TCS-000.00.05.xls	48-AMS02TCS-000.00.00	48-AMS02TCS-000.00.05	/

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CABLING INFORMATION

IDENTIFICATION PARTS			REQUIREMENTS / TEST	
Item	**DESCRIPTION**	**PART NUMBER**	**REQUIREMENTS**	**ACCORDING TO**
J126	Circolar connector	MS27497E10F98P		
HT1	Heater	1EFISG905001		
HT2	Heater	1EFISG902001	**1) MANUFACTURING**	
TH1/1A	Thermistor	G311P641/03706S04A007/3/3/5	1.1) SOLDER AND JOINT	ECSS-Q-70-08A
TH1/2A	Thermistor	G311P641/03706S04A007/3/3/5	1.2)GENERAL ASSEMBLY	48-AMS02TCS-000.00.00
TH1/1B	Thermistor	G311P641/03706S04A007/3/3/5		
TH1/2B	Thermistor	G311P641/03706S04A007/3/3/5		
			2) CRIMPING TEST	ECSS-Q-70-26A
			3) TEST RETENTION	N.A.
			4) ELECTRICAL TEST	N.A.

DRAWING TITLE

AMS TCS

Cab Heaters Thermostats cabling

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CONNECTION IDENTIFICATION DATA

FROM J126			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	J126	REMARKS	TH1/1 A	TH1/2 A	TH1/1 B	TH1/2B					REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
Bus A+	A	1)	1								2) - 6)	2	TP AWG 20	TP1	
Bus A-	B	1)		1							2) - 6)	2	TP AWG 20	TP1	
Bus B+	C	1)			1						2) - 6)	2	TP AWG 20	TP2	
Bus B-	D	1)				1					2) - 6)	2	TP AWG 20	TP2	
N.C.	E	5)													
N.C.	F	5)													

DRAWING TITLE

AMS TCS

Cab Heaters Thermostats cabling

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	PARTS LIST NUMBER	REV.
48-AMS02TCS-000.00.05.xls	48-AMS02TCS-000.00.00	48-AMS02TCS-000.00.05	/

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CONNECTION IDENTIFICATION DATA

FROM HT1			TO									WIRE / CABLE INFORMATION			
SIGNAL NAME	HT1	REMARKS	TH1/1 A	TH1/2 A	TH1/1 B	TH1/2 B	HT2				REMARKS	POS. n°	CABLE TYPE	TWISTED PAIR	REMARKS
Bus A+	1	3) ; 4) ; 6)	2				1				2);3);4);6)	2	TP AWG 20	TP3	
Bus A-	2	3) ; 4) ; 6)		2			2				2);3);4);6)	2	TP AWG 20	TP3	
Bus B+	3	3) ; 4) ; 6)			2		3				2);3);4);6)	2	TP AWG 20	TP4	
Bus B-	4	3) ; 4) ; 6)				2	4				2);3);4);6)	2	TP AWG 20	TP4	

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Legenda

SW	Single Wire
TP	Twisted pair
TSP	Twisted Shielded pair

TOOLS

"A"	**Hand crimping tool**	CL-51	M22520/01-01	S/N : 773041
	Locator	CL-52	M22520/01-04	
	Selection Position	3		

DRAWING TITLE			
AMS TCS Cab Heaters Thermostats cabling		CARLO GAVAZZI SPACE S.p.A.	
FILE NAME **48-AMS02TCS-000.00.05.xls**	NEXT ASSY **48-AMS02TCS-000.00.00**	PARTS LIST NUMBER **48-AMS02TCS-000.00.05**	REV. /

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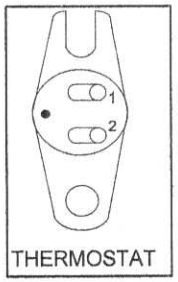
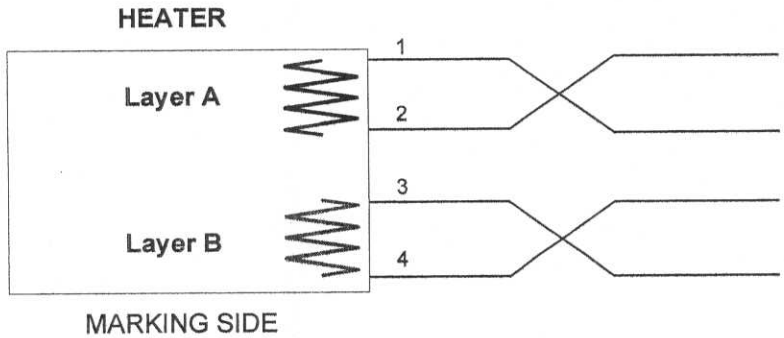
Notes

1) CRIMP WIRE TP AWG 20 TO MALE PIN P/N : M39029/58-363 (OF CONNECTOR) USING HAND CRIMPING TOOL "A" .

2) FOR CONNECTING THE THERMOSTAT SOLDER THE WIRE AWG 20 TP ACCORDING TO ECSS-Q-70-08A AND PROTECT JUNCTION WITH HEAT-SHRINKABLE INSULATE SLEEVE RT-220.



3) FOR CONNECTING THE HEATER SOLDER THE WIRE ACCORDING TO ECSS-Q-70-08A , USE THE WIRE CONNECT OF HEATER .



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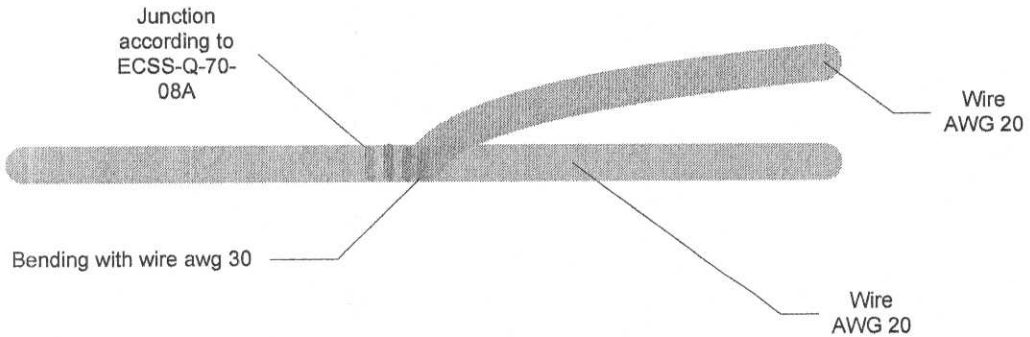
4) FOR CONNECTING THE HEATERS SEE DRAWING, COVER THE SOLDER JOINT WITH HEAT-SHRINKABLE INSULATE SLEEVE RT-220.



5) ASSEMBLE MALE CONTACT P/N : M39029/58-363 (OF CONNECTOR)

6) MARKER THE WIRE WITH THE NAME OF ITEM END THE NAME OF PIN (EX. TH1/xx)
USE HEAT-SHRINKABLE INSULANT SLEEVE p/n : TMS-SCE-1K-3/16-2.0-9

DRAWING TITLE

AMS TCS
Cab Heaters Thermostats cabling
Parts list

CARLO GAVAZZI SPACE S.p.A.

FILE NAME	NEXT ASSY	PARTS LIST NUMBER	REV.
48-AMS02TCS-000.00.05.xls	48-AMS02TCS-000.00.00	48-AMS02TCS-000.00.05	/

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POS.	DESCRIPTION	SPECIFICATION / PROC. SPEC	SUPPLIER	PART NUMBER / ID. CODE	ISSUE REV.	CGS CODE / MATERIAL	-01 Q.TY	-02 Q.TY	-03 Q.TY	-04 Q.TY	DATA CODE	S/N	REMARKS
1	Pin male cicolar connector awg 20	MIL-C-39029/58	Amphenol Pcd	M39029/58-363			6						
4	Wire awg 20	ESA/SCC 3901/012	Raychem	ESA/SCC 3901/012-1116B			A.R.						