

Technical Information Sheet

sheet 5.

attention of Doug Griffin

Rutherford and Appleton Laboratory :

Cryogenic F16-F23 & Internal/external STM

**Tekdata**
interconnections

Reference : RERB/DW/PL Quotation 5029 PDB 7599

Date : 19-06-02

All assemblies will be manufactured within Tekdata's BSEN ISO accreditation, the leadtime to production items is controlled by the availability of the connectors & cable manufacture. Current leadtime :- MDMs 8/9 weeks, miniature cable types 8 weeks. (concurrent).

Process time to completion 4/5 weeks in addition to leadtime materials.

I think this covers all the salient points, please call me if I have missed anything, you require qualification or have points to add.

best regards, Roy.

cc Eric Clark RAL
 Dave Smith RAL
 Eric Sawyer RAL
 Peter Hargrave Cardiff
 Ian Pain ROE
 Jean-Louis Augueres CEA
 Christophe Cara CEA
 Lionel Duband CEA

Roy Blake : Project Manager
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Terry McMannus Tekdata
 Denis Williams Tekdata
 Neil Edwards Tekdata

Carriage will be on a one to two day service at cost. Tekdata's terms for payment are 30 days net and out standard terms and conditions apply.

*reaching into the cold***Tekdata**
cryoconnect

Tekdata Limited Westport House Federation Road Burslem Stoke On Trent Staffordshire ST6 4HY
 Tel : 01782-577677 Fax : 01782-823881

Technical Information Sheet

sheet 4.

attention of Doug Griffin

Rutherford and Appleton Laboratory :

Cryogenic F16-F23 & Internal/external STM

Reference : RERB/DW/PL Quotation 5081 PDB 7599

Date : 23-09-02


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RAL Assembly Part Number	Tekdata Part No.	Quantity	Unit Price
Item 1. F16 Cooler-P to FA	SD 13649	2	1,538.30
Item 2. F17 Cooler-R to FD	SD 13650	2	1,460.95
Item 3. F18 SPECT STIM-P to FA	SD 13651	2	1,604.50
Item 4. F19 SPECT STIM-R to FD	SD 13652	2	1,604.50
Item 5. F20 THERM-P from FB	SD 13653	2	1,594.75
Item 6. F21 THERM-R from FE	SD 13654	2	1,594.75
Item 7. F22 BSM-P to FB	SD 13655	2	1,734.10
Item 8. F23 BSM-R to FE	SD 13656	2	1,734.10
Item 9. Internal STM	SD 13657	1	1,352.65
Item 10 External STM	SD 13658	1	1,717.45

- Notes :
- a) All connectors (MDMs) to be encapsulated with Stycast 2850FT backshells. MDMs to have EMC shielding embedded within the pottings.
 - b) Items 1,2,3,4,7 & 8 to be planar in structure woven in a nomex matrix.
 - c) Additional termination requirements (i.e. input baffle prime, SOB cone etc) to be defined as hard wired & potted or insulated pin & socket arrangements.
 - d) Thermal cycling to be carried out in conjunction with the SPIRE BDA-JFET harnesses.
 - e) Test interface cable assemblies for testing during environmental cycling and intermediate and final testing are amortised across all of the above assemblies to minimise the number and cost of cables required.
 - f) Full traceability will be maintained on all parts and manufacturing processes.
 - g) All the assemblies and quantities quoted assume all quantities are ordered and built in conjunction with each other to minimise the number of significant stages in production which include the test setups required for the 'Bakeout' and 'Environmental' testing and raw cable manufacturing setups.

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Technical Information Sheet

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attention of Doug Griffin

Rutherford and Appleton Laboratory :

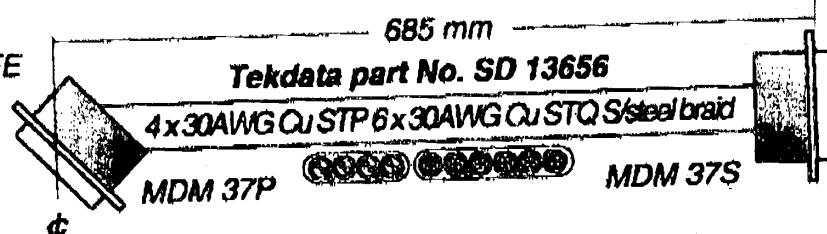
Cryogenic F16-F23 & Internal/external STM

Reference : RERB/DW/PL Quotation 5081 PDB 7689

Date : 23-09-02

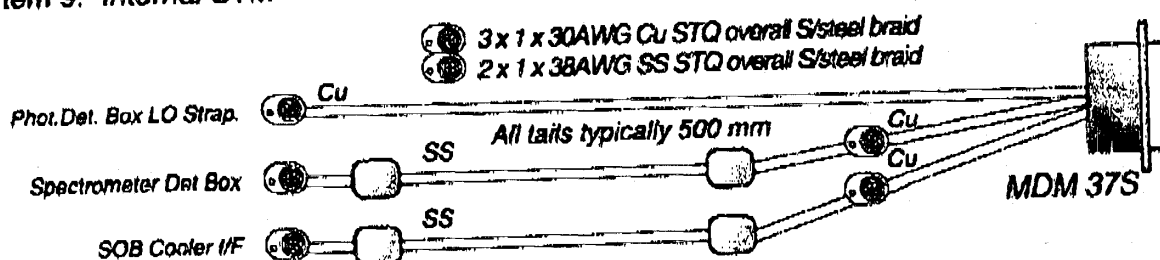

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interconnections

Item 8. F23 BSM-R to FE



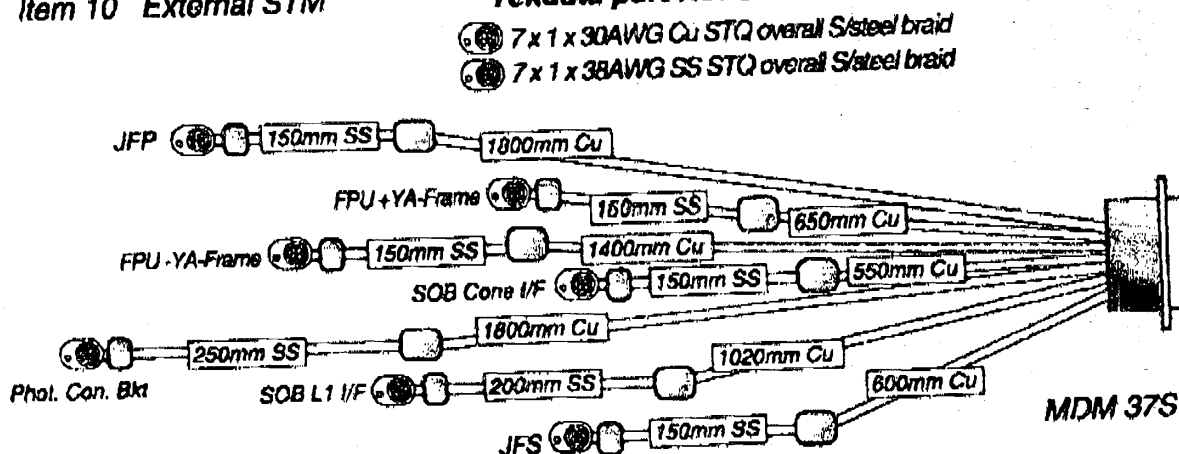
Item 9. Internal STM

Tekdata part No. SD 13657



Item 10 External STM

Tekdata part No. SD 13658



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Sheet 2.

Technical Information Sheet

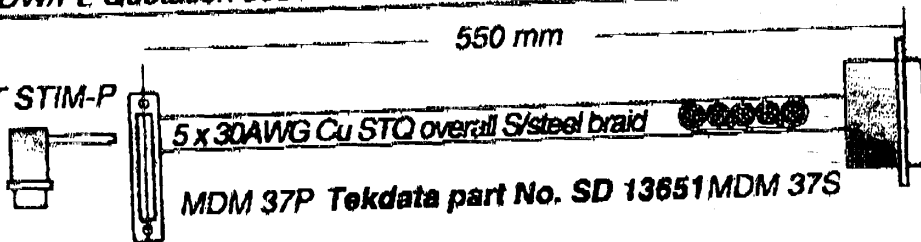
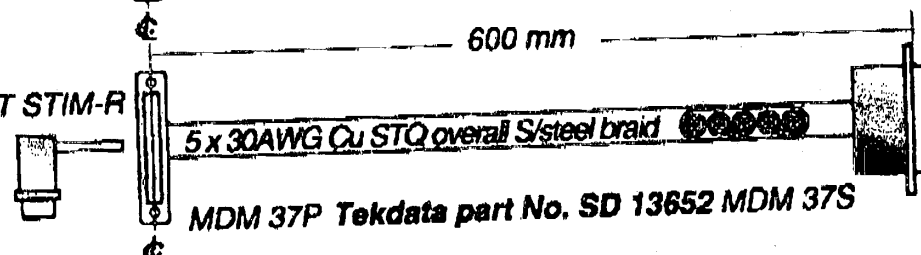
attention of Doug Griffin

Rutherford and Appleton Laboratory :

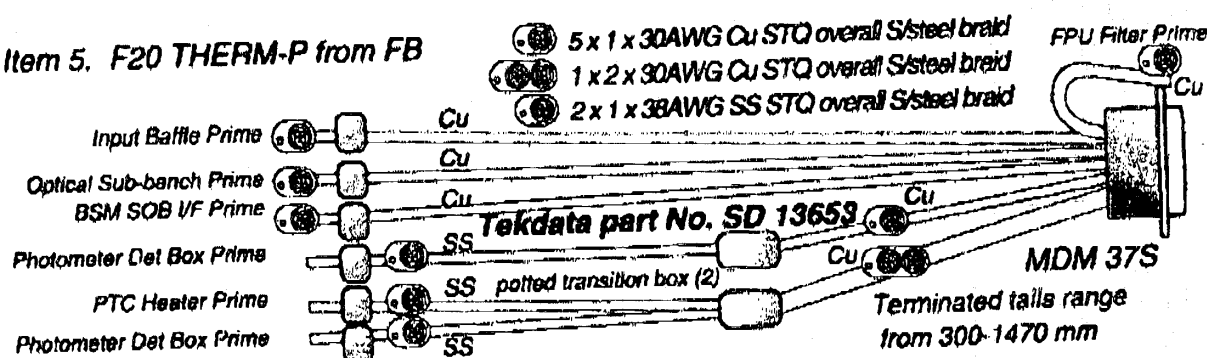
Cryogenic F16-F23 & Internal/external STM

Reference : RERB/DW/PL Quotation 5081 PDB 7689

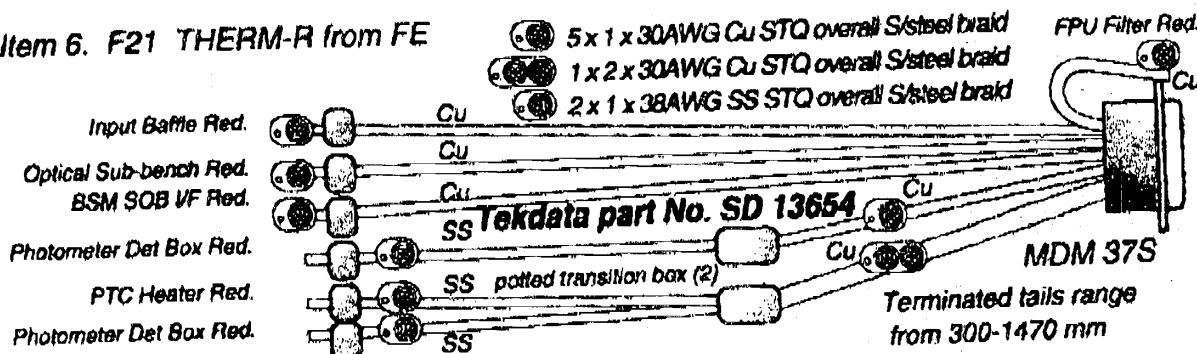
Date : 23-09-02

Tekdata
interconnectionsItem 3. F18 SPECT STIM-P
to FAItem 4. F19 SPECT STIM-R
to FD

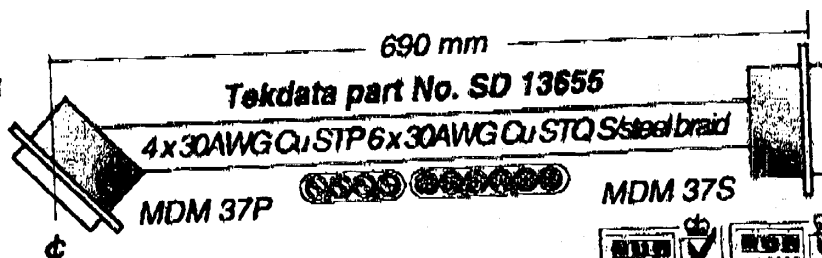
Item 5. F20 THERM-P from FB



Item 6. F21 THERM-R from FE



Item 7. F22 BSM-P to FB

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Technical Information Sheet

sheet 1.

attention of Doug Griffin

Rutherford and Appleton Laboratory :

Cryogenic F16-F23 & Internal/external STM

**Tekdata**
interconnections

Reference : RERB/DW/PL Quotation 5081 PDB 7689 Issue 01

Date : 23-09-02

Good morning Doug,

please find our quotation for 2 sets of your SPIRE CQM & PFM harnesses, and 1 piece of your Internal and External STM harnesses. In all cases we are using MDM micro D types to Mil specifications. Transition connections at selected devices will be hard wired or fitted with miniature pin & socket arrangements to allow disconnection.

The miniature cable construction is as specified with FEP dielectric and FEP jacket between the system ground and stainless steel EMC outer shield. All the MDM connectors to be RFI-EMC shielded with copper within the potted backshells. Potting material Stycast 2850FT, catalyst 9. Retention screws on MDM to be agreed.

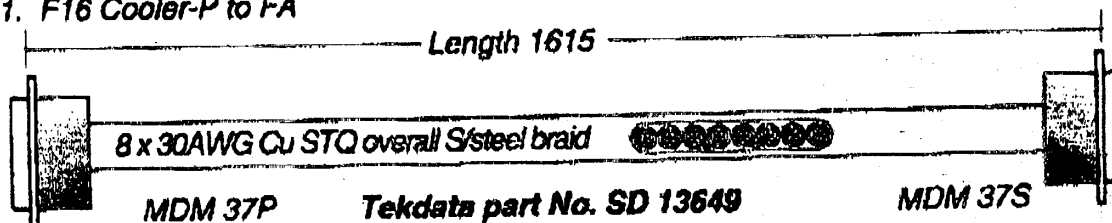
Item 11, which is the assembly jig will be purchased from your nominated supplier with the additional bracketry fitted by Tekdata sufficient to provide forming.

Our offer is based upon SPIRE-RAL-DOC001362 iss. 1.0 . Harness testing is :-

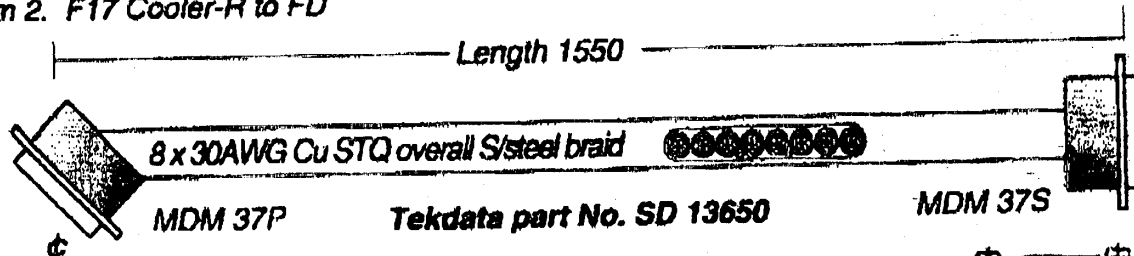
1. Intermediate inspection and testing. Prepotting to include photographs as part of the KIP procedures for soldered terminations.
2. Hi-pot and continuity testing upon completion at ambient.
3. Thermal cycling as 3.6.
4. Bake-Out as per 3.8.
5. Cleaning if required and visual inspection.
6. Final Hi-pot and continuity testing.

Threshold resistances for continuity and open circuits to be agreed.

Item 1. F16 Cooler-P to FA



Item 2. F17 Cooler-R to FD



continued on sheet 2.

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