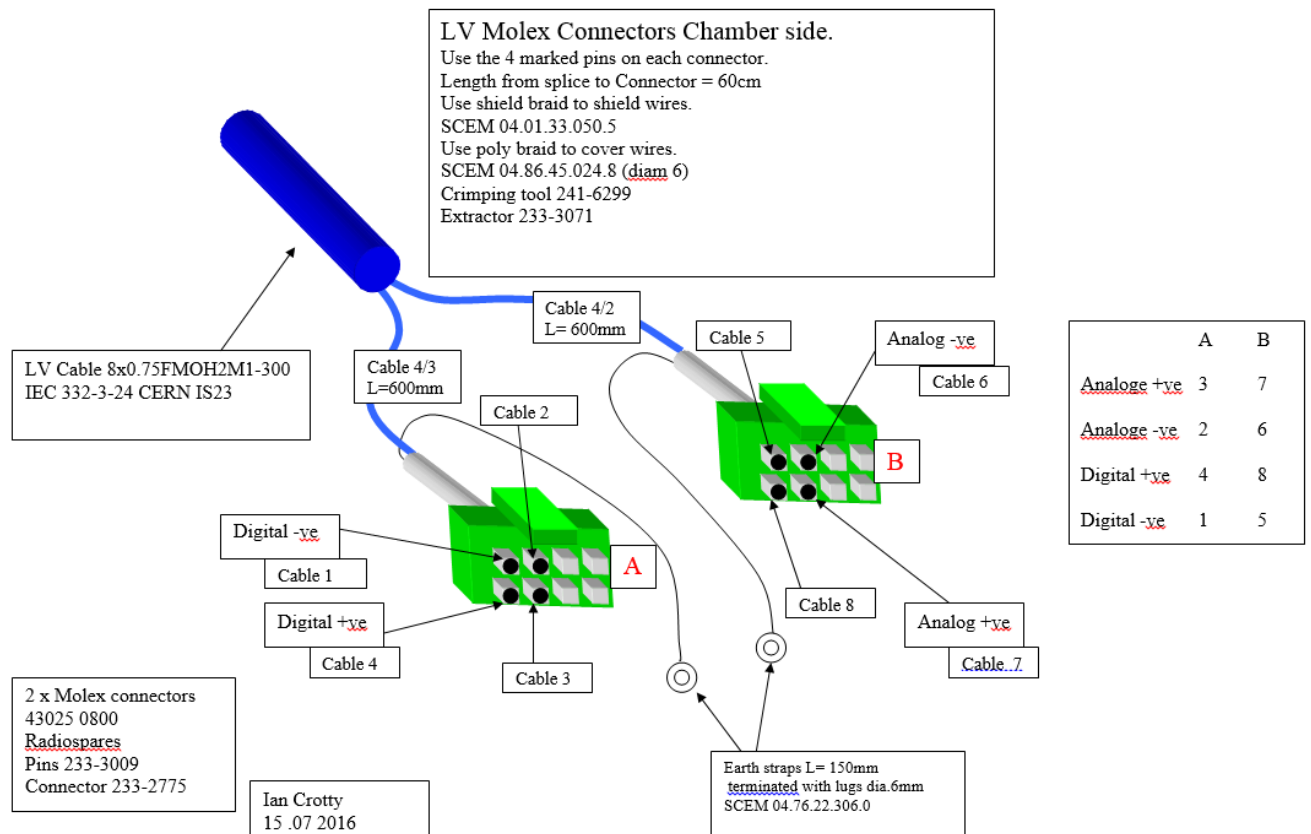


LV cables for Institutes and GIF

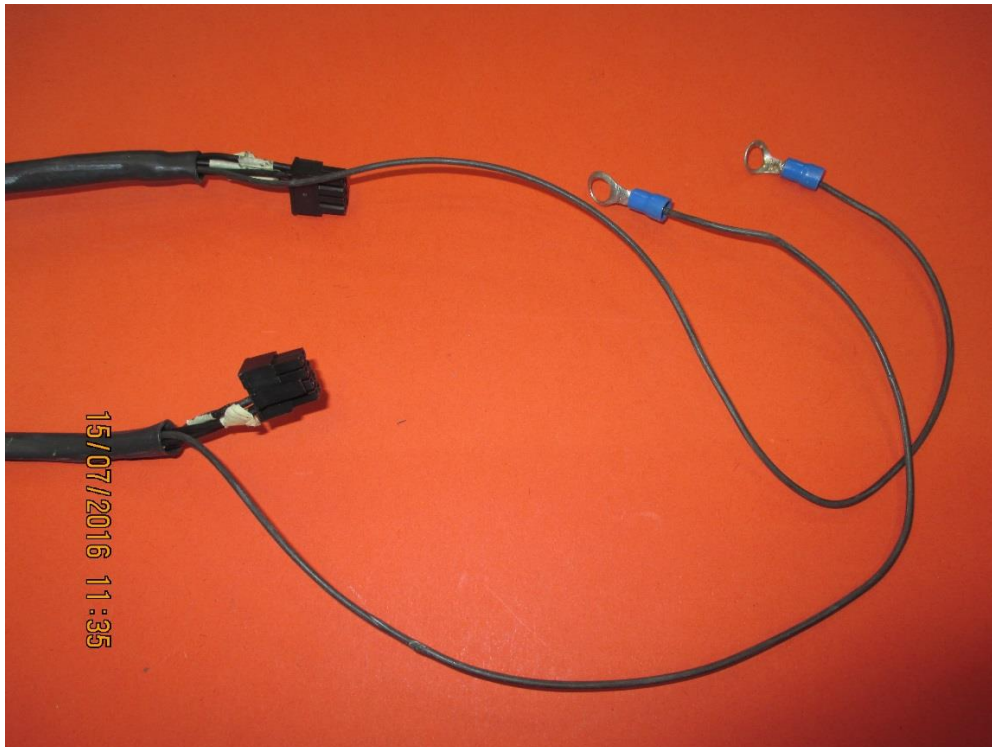
Molex Connectors.

X2 Molex 8 pin connectors

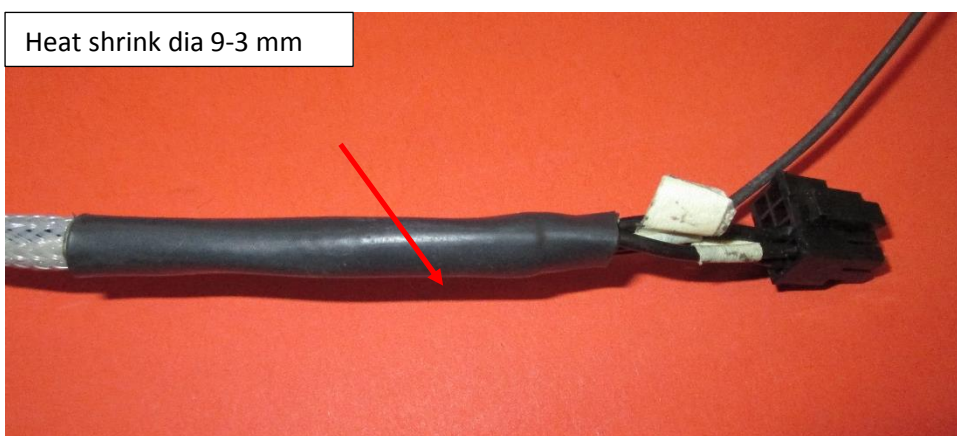
Ian Crotty 21 July 2016



Molex, conductive braid, polymer braid, ground wire and lug.



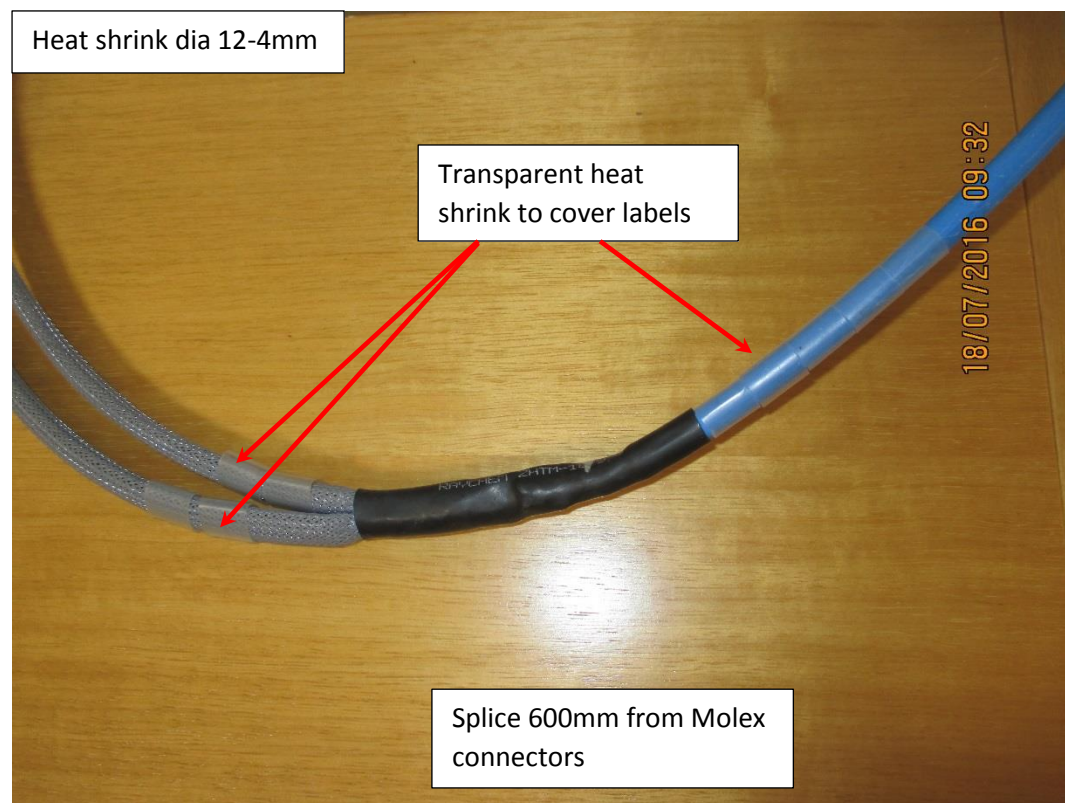
Molex with ground wire connected to conductive braid.



The 4 pins in the Molex body

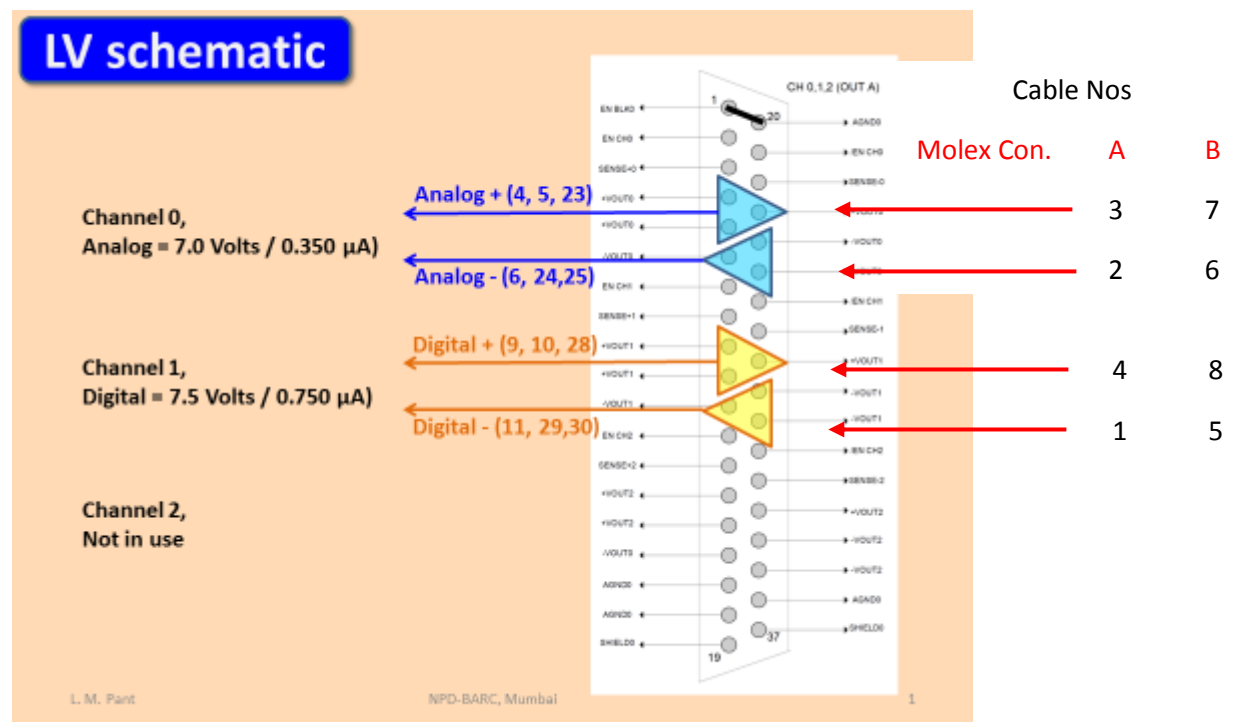


Splice and Transparent heat shrink to cover labels

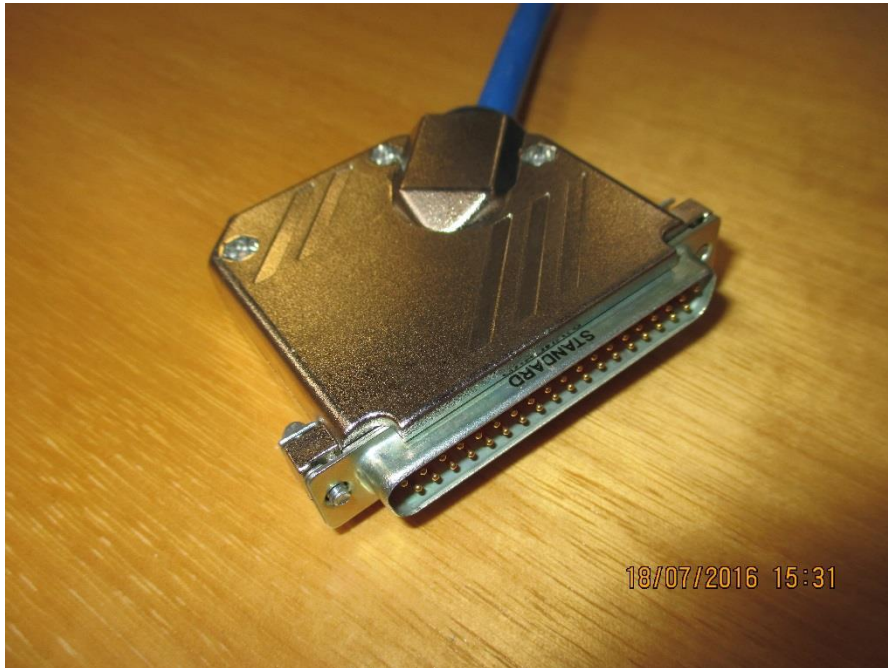


D "Sub" connector

37 pins



“D” Sub housing.



Component List

1. Heat shrink dia 9-3 mm
2. Heat shrink dia 12-4 mm
3. Transparent heat shrink (for labels) dia 12mm
x5 on D Sub
x5 on each of Molex end.
4. Polymer braid dia 6mm
5. Conductive braid dia 6mm
6. Molex connectors
7. "D" Sub connectors 37c
8. Ground wire (0.5mm²) black
9. Lug dia. M6 for ground wire

Full component list is available here;

<http://project-cms-rpc-endcap.web.cern.ch/project-cms-rpc-endcap/rpc/Services/Cables/HV&LV/LV/GenericLV/Components.xlsx>

D Sub Connector SCEM 09.21.20.460.4

09.21.07.C

Group: 09.21

09.21.20.B

09.21.20 - IDC D-SUB 3M CONNECTORS

For any further technical information additional - click here

WIRE GAUGE
AWG 30 SOLID
AWG 28 SOLID
AWG 26 STRANDED

ROUND CABLES 04.21.48.A

Buy	SCEM Code	Unit	Unit Price	Stock	Expected Delivery	Direct Delivery	DESCRIPTION	CONTACT NUMBER	A mm	B mm	3M TYPE	FIG.
	09.21.20.010.6	PC	2.6	274	14.07.2016	>=122	SOCKET	9 female	30,7	24,9	8309-6009	1
	09.21.20.020.4	PC	3.2	160	14.07.2016	>=112	PLUG	9 male	30,7	24,9	8209-6009	2
	09.21.20.050.8	PC	11.1	36	14.07.2016	>=100	SOCKET	15 female	39,1	33,3	8315-6009	1
	09.21.20.060.6	PC	3.75	370	14.07.2016	>=340	PLUG	15 male	39,1	33,3	8215-6009	2
	09.21.20.080.0	PC	3.5	184	14.07.2016	>=151	SOCKET	25 femelle	53,1	47,0	8325-6009	1
	09.21.20.100.5	PC	3.6	150	14.07.2016	>=121	PLUG	25 male	53,1	47,0	8225-6009	2
	09.21.20.130.9	PC	9.9	70	14.07.2016	>=87	SOCKET	37 femelle	69,3	63,5	8337-6009	1
	09.21.20.140.7	PC	9.45	120	14.07.2016	>=104	PLUG	37 male	69,3	63,5	8237-6009	2
	09.21.20.200.2	PC	14.5	86	14.07.2016	>=81	FLAT CABLE COVER	9	33,0	24,9	3485-2100 F	3
	09.21.20.220.8	PC	19.5	90	14.07.2016	>=86	FLAT CABLE COVER	15	41,4	33,3	3485-2200 F	3
	09.21.20.240.4	PC	16.0	95	14.07.2016	>=91	FLAT CABLE COVER	25	55,1	47,0	3485-2300	3
	09.21.20.260.0	PC	11.0	86	14.07.2016	>=77	FLAT CABLE COVER	37	71,6	63,5	3485-2400	3
	09.21.20.300.9	PC	0.31	80	14.07.2016	>=717	ANTI-TRACTION LOOP	9	-	-	3448-8D09A	-
	09.21.20.340.1	PC	0.315	200	14.07.2016	>=700	ANTI-TRACTION LOOP	25	-	-	3448-8D25A	-
	09.21.20.360.7	PC	2.44	200	14.07.2016	>=453	ANTI-TRACTION LOOP	37	-	-	3448-8D37A	-
	09.21.20.400.6	PC	2.9	66	14.07.2016	>=158	ROUND CABLE COVER	9	37,2	31,1	3357-6509	4
	09.21.20.420.2	PC	3.4	80	14.07.2016	>=77	ROUND CABLE COVER	15	40,6	39,2	3357-6515	4
	09.21.20.440.8	PC	3.2	83	14.07.2016	>=79	ROUND CABLE COVER	25	44,1	53,1	3357-6525	4
	09.21.20.460.4	PC	4.6	77	14.07.2016	>=73	ROUND CABLE COVER	37	45,7	69,3	3357-6537	4
	09.21.20.500.3	SA	4.2	31	14.07.2016	>=34	LOCK SCREW 4-40 UNC	-	-	-	3342-2	-



Optional;

Molex and pins;

Molex pin

Radio Spares Ref 237-6747

9.70Euro for more than 25 (Prices from 2004)

Molex MICRO-FIT 3.0, 43030 Series Number PCB Connector Contact, Female, Crimp, Tin over Nickel Plating

RS Stock No. 233-3009
Brand Molex
Mfr. Part No. 43030-0007

molex



Product Details

Micro-Fit 3-0 Crimp Contacts

A range of Molex male and female gender Micro-Fit 3-0 series crimp terminal contacts for use with Micro-Fit 3.0 plugs and receptacle connector housings. These connector housings accommodate 24-20, and 30-26 AWG wire ranges.

Features

Phosphor bronze contact material
Available with tin or gold mating plating
Tin plated terminal plating

Note

For a suitable crimp tool, see stock no. 501-061

For suitable plugs and receptacles, see stock numbers 233-2747 or 447-6681 for dual and single row respectively)

Stock number 797-8767 is a Reduced Mating Force Series 46235 Crimp Terminal Contact.

Molex Micro-Fit 3.0 Series

Voltage rating	250V a.c. (rms) or 176V d.c.	Contact resistance	10mΩ max.
Current rating (per contact)	Amps	Insulation resistance	1000 MΩ min.
20/22 awg	5	Dielectric strength	1500V a.c.
24 awg	4	Contact material	Tin plated phosphor bronze
26 awg	3	Housing material	Polyester 94V-0
28 awg	2	Header material	High temp LCP
30 awg	1		

✓ 2570 In stock for FREE next working day delivery

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Technical Reference

✓ RoHS Certificate of Compliance

Datasheet

Product Specification

Statement of conformity

Adobe 3D -43030-0007

Drawing: Micro-Fit 3.0? Crimp Terminal, Female, with Tin (Sn) Plated Tin/Brass Alloy Contact, 20-24 AWG, Bag

Essential extras

Molex Extraction Tool for HANDTOOL Series Crimp Contact, Contact size 3.0
£23.94

Quick View

Molex Crimp Tool, Crimp Terminal, 30 → 20 AWG Wire Size
£261.48

Quick View

Molex 8 pin body

233-2775

Series Number 43025 (printed on body)

Molex MICRO-FIT 3.0 Series 3mm Pitch 8 Way 2 Row Female Straight PCB Housing 43025

RS Stock No. 233-2775
Brand Molex
Mfr. Part No. 43025-0800



Product Details

Molex 3.00mm Micro-Fit 3.0 Wire to Wire Plug and Receptacle Crimp Housings, Series 43025 and 43020
3.00mm pitch Micro-Fit 3.0 series wire to wire dual row plug (series 43020) and receptacle (series 43025) crimp housings that form part of a unique compact and high density low to mid-range power connector system that can carry up to 5.0A of current. These 3.00mm pitch Micro-Fit 3.0 plug and receptacle crimp housings feature positive locking for a secure connection and are fully polarized to prevent mismatching. In addition the Micro-Fit 3.0 43020 series plug connectors with part numbers 43020xx00 have mounting ears enabling them to be used in panel mount applications.
The Micro-Fit 3.0 43025 series crimp receptacle housings mate with the 43020 series crimp plug housings and use 43030 or 46235 series receptacle contacts. The 43020 crimp plug housings use 43031 series crimp pin contacts.

Molex Micro-Fit 3.0 Series

Voltage rating	250V a.c. (rms) or 176Vd.c.	Contact resistance	10mΩ max.
Current rating (per contact)	Amps	Insulation resistance	1000 MΩ min.
20//22 awg	5	Dielectric strength	1500V a.c.
24 awg	4	Contact material	Tin plated phosphor bronze
26 awg	3	Housing material	Polyester 94V-0
28 awg	2	Header material	High temp LCP
30 awg	1		

<http://rpc-cms-re4-upscope.web.cern.ch/rpc-cms-re4-upscope/RPC/GIFPlusPlus/Services/LV/CAENA1513Adoc/LVSchematic.pptx>

This doc is available here;

<http://project-cms-rpc-endcap.web.cern.ch/project-cms-rpc-endcap/rpc/Services/Cables/HV&LV/LV/GenericLV/LVCablesGIFandInstitutes.pdf>