

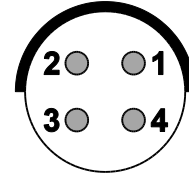
Cryomagnetics LM 510 helium level meter to cryostat/dewar

Active length of liquid helium sensor: 38 cm. Total length of sensor: 50 cm

Female connector wiring at LHe sensor

4-pin Fischer receptacle DBEE 103 A053-130

Red = I+ pin 1 at Fischer recept.
Blue = V+ pin 2 at Fischer recept.
Yellow = V- pin 3 at Fischer recept.
Black = I- pin 4 at Fischer recept.

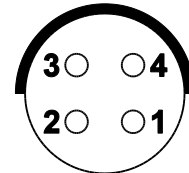


Female: Connector view

Male connector wiring at the cable end

4-pin Fischer plug S 103 A053-130+

Red = I+ pin 1 at Fischer plug
White = V+ pin 2 at Fischer plug
Green = V- pin 3 at Fischer plug
Black = I- pin 4 at Fischer plug

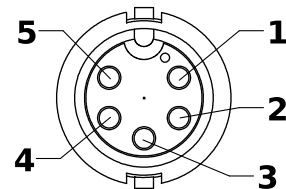


Male: Connector view

Male connector wiring at the cable end

5-pin Conxall plug 6282-5PG-3DC (Mini-Con-X)

Red = I+ pin 1 at Mini-Con-X plug
White = V+ pin 2 at Mini-Con-X plug
Green = V- pin 4 at Mini-Con-X plug
Black = I- pin 5 at Mini-Con-X plug



FACE VIEW
6282-5PG-3DC

Male: Connector view

From the Cryomagnetics LM-510 manual:

Sensors connect to the rear panel of LM-510 by circular connectors located above the labels Channel 1 and Channel 2. The pin designations for the LHe sensor are:

Pin #	Lead Function	Teflon Color	Phosphor-Bronze Color
1	I+	Red	Clear
2	V+	Blue	Yellow
3	Shield	N/A	N/A
4	V-	Yellow	Green
5	I-	Black	Black

Selection and ordering information for Fischer and Conxall connectors

Fischer connectors

S 103 A053-130+
DBEE 103 A053-130

S = Locking plug (in general, S is for plug and D for receptacle)
DBEE = Hermetic, front projecting receptacle
103 = 103 series
A = male contacts on plug and female contacts on receptacle
053 = 4-pin contact configuration
130 = Natural chrome housing, PEEK contact blocks with solder contacts, key code 1
+ = Cable clamp set (clamp nut without bend relief)

Conxall/Switchcraft connectors

Part no. 6282-5PG-3DC
Description: 5-position round plug with soldering lugs
Tradename: Mini-Con-X
Digi-Key-nr. SC1268-ND
Mouser nr. 502-6282-5PG-3DC

6 = Connector type: Cable end
2 = Contact size: 2 - #20 (2-8 Contacts)
82 = Contact style: 82 - Solder Cup (Supplied assembled)

5 = Number of contacts
P = Type of contact: P - Pin, S - Socket
G = Contact plating: Gold over nickel (standard)

3 = Back shell style 3
3DC= Daisy chain grommet with 3 I.D.s. (0.125, 0.188 & 0.250)

See also: <https://octopart.com/electronic-parts/connectors/circular-connectors>
<https://pinoutguide.com>