

Total Roundtrip Resistance = $6.604\text{m} \times 0.0586 \text{ ohms/m} \times 2 = 0.77\text{ohms}$

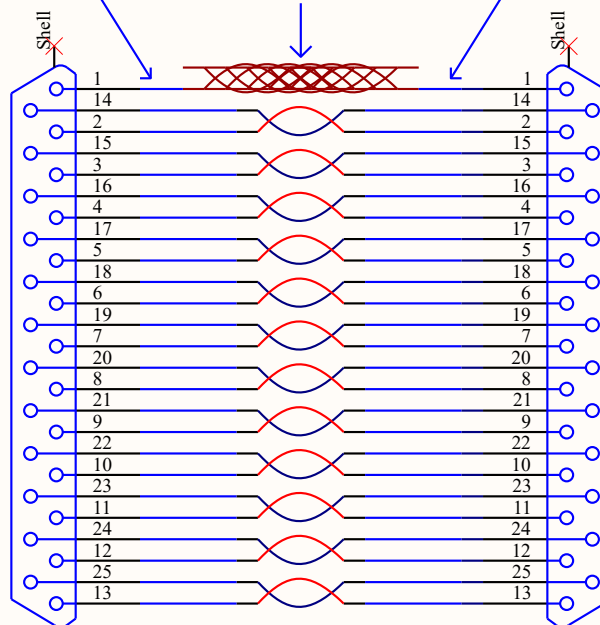
This cable must have an overall PEEK protective braid plus shield. Accu-Glass part number details are TBD

AccuGlass Wire Type 112678 or Equivalent
Cable Length: 260 +/- 3 Inches
Wire Gauge: 22 AWG
Wire Resistance: 0.0586 ohms/meter
Wire Type: UHV Kapton Insulated

Pinning Information:

U1 pin 13 to U2 pin 13 - Twisted Pair 1
U1 pin 12 to U2 pin 12 - Twisted Pair 2
U1 pin 11 to U2 pin 11 - Twisted Pair 3
U1 pin 10 to U2 pin 10 - Twisted Pair 4
U1 pin 9 to U2 pin 9 - Twisted Pair 5
U1 pin 8 to U2 pin 8 - Twisted Pair 6
U1 pin 7 to U2 pin 7 - Twisted Pair 7
U1 pin 6 to U2 pin 6 - Twisted Pair 8
U1 pin 5 to U2 pin 5 - Twisted Pair 9
U1 pin 4 to U2 pin 4 - Twisted Pair 10
U1 pin 3 to U2 pin 3 - Twisted Pair 11
U1 pin 2 to U2 pin 2 - Twisted Pair 12
U1 pin 1 to U2 pin 1 - Drain wire to Shield
U1 pin 14 to U2 pin 14 - Twisted Pair 12
U1 pin 15 to U2 pin 15 - Twisted Pair 11
U1 pin 16 to U2 pin 16 - Twisted Pair 10
U1 pin 17 to U2 pin 17 - Twisted Pair 9
U1 pin 18 to U2 pin 18 - Twisted Pair 8
U1 pin 19 to U2 pin 19 - Twisted Pair 7
U1 pin 20 to U2 pin 20 - Twisted Pair 6
U1 pin 21 to U2 pin 21 - Twisted Pair 5
U1 pin 22 to U2 pin 22 - Twisted Pair 4
U1 pin 23 to U2 pin 23 - Twisted Pair 3
U1 pin 24 to U2 pin 24 - Twisted Pair 2
U1 pin 25 to U2 pin 25 - Twisted Pair 1

Drain wire to Shield Copper Braid Shield Drain wire to Shield



U1
DB25 Female
Accu-Glass Part Number: 100460
Accu-Glass Contact PN: 100180
Accu-Glass Strain Relief PN: 100465

U2
DB25 Female
Accu-Glass Part Number: 100460
Accu-Glass Strain Relief PN: 100465
Accu-Glass Contact PN: 100180



Last Edited: 9/24/2020

Title
D25F to D25F 260 Inch Cable 22AWG

LIGO Laboratory
California Institute of Technology
Massachusetts Institute of Technology

LIGO

Size: A DCC Number: D1700316

Revision: v2

Engineer: R. Abbott

Date: 9/29/2020
Time: 9:59:54 AM

File: C:\Dean\A+A+Cables\A+In Vacuum Cables\SQZ\D1700316-v1 SQZ-D25F-to-D25F In Vac Cable 260inches\D1700316-v2 SQZ-D25F-to-D25F In Vac Cable 260inches.SchD