

Molex Minifit Connector		Cable Pinouts		
Connector	Color Code	Pairs	Function	Hirose 3x2 Connector
1		Twisted	Power	1
5		Pair	GND	2
2		Twisted	KDU RX+	3
7		Pair	KDU RX-	4
4			NC	
6		Drain	Shielded GND	NC
3		Twisted	KDU TX+	5
8		Pair	KDU TX-	6

Cable Specifications

A. Jacket

- Material: low durometer PVC
 - Shore A 68 durometer
- Outside diameter
 - TBD mm minimum
 - TBD mm maximum
- Thickness: 0.8mm nominal
- Color: black
- Marking
 - TBD
 - Color:

B. Shield

- Material: aluminum foil / Mylar
- Thickness: 0.025mm nominal
- Overlap: 25% nominal
- Aluminum faces in

C. Drain Wires

- Material: tinned copper
- TBD AWG nominal
- 19/38 stranding

D. Filler

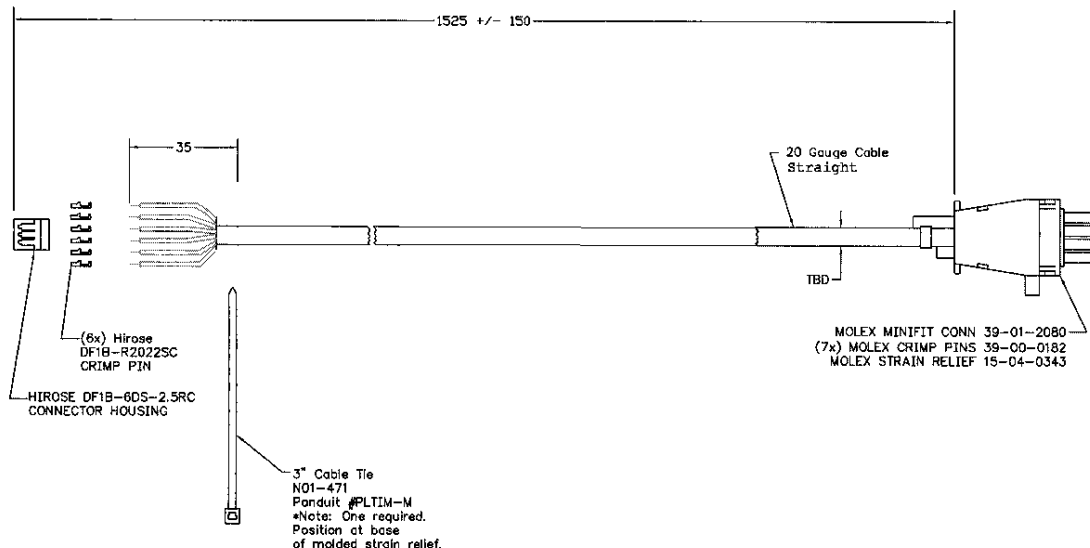
- Use as necessary to maintain maximum cable flexibility

E. Twisted Pairs

- Three twisted pairs
- Each wire:
 - Material: tinned copper
 - 20 AWG nominal
 - 19/38 stranding
- Insulation
 - Material: XLPE
 - Diameter: 0.98mm nominal
 - Thickness: 0.24 mm nominal
- Colors
 - Pair 1: black & white (TBD)
 - Pair 2: red & green (TBD)
 - Pair 3: white/red & white/green (TBD)

F. Other Specifications

- PVC (polyvinylchloride)
 - Elongation: 100% minimum
 - Tensile strength: 10 MPa minimum
- XLPE
 - Elongation: 150% minimum
 - Tensile strength: 10 MPa minimum
- Cable should be as flexible as possible
- Must meet UL 94V-0 flame specification
- Operating temperature range is -20 to 85 °C
- Storage temperature range is -40 to 100 °C
- Plenum rating not required
- Maximum operating voltage between any two conductors is 75 volts
- All materials must be RoHS compliant



Rev.	Date	By	Description	
HO CHIEN			PN#	
www.hochien.com			CA-C5035-0003	
Dimensions in Millimeters			C051 Output Cable 6 pin	
<150 mm			X = ±0.5	Rev 1 sga 27 April 06 N04-734
>150 mm			XX = ±0.2	
All angles ±0.5°			XX = ±0.6	