



**NOTES**

**Construction:**

- Conductor: 28 AWG, 0.32mm (0.0126") Solid SPC
- Insulation: Fluoropolymer
- Drain Wire: 30 AWG, 0.25mm (0.010") Solid SPC
- Shield: Aluminum / Polyester, 0.023mm (0.0009") Thickness Ref.
- Jacket: Polyester, Heat Sealed, 0.018mm (0.0007") Thickness Ref.

| Based on 4m Test Length |         |         |
|-------------------------|---------|---------|
| Freq (GHz)              | SDD21   |         |
|                         | Nom. dB | Max. dB |
| 2.50                    | 7.61    | 8.08    |
| 5.00                    | 11.01   | 11.73   |
| 7.50                    | 13.62   | 14.57   |
| 10.00                   | 15.98   | 17.28   |
| 12.89                   | 18.50   | 20.13   |
| 15.00                   | 20.34   | 21.97   |
| 17.50                   | 22.40   | 23.96   |
| 20.00                   | 24.42   | 26.16   |
| 22.50                   | 26.65   | 28.92   |
| 25.00                   | 28.91   | 31.72   |
| 27.50                   | 31.21   | 34.55   |
| 30.00                   | 32.63   | 36.50   |

**Electrical Characteristics:**

- (Based on a 4m Length)
- Differential Impedance: 90 +/- 2 Ohms
- Propagation Delay: 4.8 ns/m Ref.
- Intra-Pair Skew: 40 ps/4m Max.

Intra-Pair Skew: (Frequency Based)  $\sqrt{\frac{1}{N} \sum \left( \frac{\text{phase} \left( \frac{S_{21} - S_{23}}{S_{43} - S_{41}} \right)}{f \cdot 0.36} \right)^2} \leq 14\text{ps}$

- Phase unit: degree
- f: Frequency in GHz where 1GHz ≤ f ≤ 21 GHz
- N: Number of frequency points: (f)

**SCD21**

f < 30 GHz: 20 dB Min.

**Mechanical Characteristics:**

Min. Bend Radius: 5X OD - Minor Axis

Print Legend (Drain Wire Side): MOLEX TEMP-FLEX(R) <LOCATION CODE: US OR PHL OR GDL> TWINMAX(TM) 28 AWG 1000680085 --- E61522 <UL CODE: -MPI for PHL, <blank> for US, -MDM for GDL> STYLE 22058 cRUus AWM I A/B 105C 30V FT1 VW-1 --- <TRACEABILITY>

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|--|-----|------|--|-------|---------|
|  | A   | 5170 | Released to Production                                     | KP    | 1/9/17  |
|  | B   | 5346 | Update to Current Production Data.<br>Update Print Legend. | KP    | 11/8/17 |