PERFORMANCE DATA

Capacitance: 13.3 pF/ft leg-to-leg (nominal)
Skew: 3.5 ps/m max within pairs
Propagation Delay: 1.46 ns/foot
Flex Cycles: 4,000 cycles, single*
Current Rating: Single conductor: 1.5 Amps**
2 conductors: 1.1 Amps**
Shield DCR: 159 Ω/1000 ft
CC DCR: 300 Ω/1000 ft
Min. Bend Radius: .125”
Availability: Single, tape bonded
Temperature Rating: -40 °C to 140 °C ***
Flammability Rating: UL VW-1†
DWV Working Voltage: 283 V‡

Insertion Loss | 0.25 m | 1 m |
---|---|---|
-3 dB | 30 GHz | 2.6 GHz |
-7 dB | > 32 GHz | 13 GHz |

* Test Conditions – 4 oz. weight, dia 7/8” mandrel, +/-90 bend X2
** Rating – 30 °C Temperature Rise, 20% de-rated.
*** Test Conditions – Heat Shock/Cold Soak per UL #1581, wire wrap 7/8” mandrel, visual inspection
†TX-34100CU-T01-S has undergone UL VW-1 Research Testing and complies with UL 2556.
‡Test Conditions – IR/DWV/Thermal Shock/Humidity per EIA-364-20, 21, 31 and 32

Insertion Loss and Return Loss Graphs:

1. IL and RL data is typical. Results may vary.

100 Ω, 34 AWG SOLID, CU MICRO TWINAX CABLE HT

Jacket: THV
R .018 (0.445)
Shield: Aluminized Polyester Tape
R .013 (0.314)
Shield: Copper Foil
R .012 (0.292)
Dielectric: PFA
R .011 (0.267)
Signal Conductors: Silver Plated Alloy
34 AWG Ø .0063 (0.160)