



IP3002CEXX

PCIe 5.0 32GT/s, 112Gbps PAM4, 30AWG Silver Plated Copper



CONSTRUCTION

Conductors	30 AWG Silver-Plated Copper
Insulation 1	Fluoroplastic
Insulation 2	Fluoroplastic
Shield	Hot Aluminum Mylar
Drain wire	34AWG Tinned Copper
Outer Covering	Hot melt Polyester Mylar

APPLICABLE STANDARD

UL Style 20744 / 21940 / 22431 / 22082
Flame Test FT2 / VW-1 (Under Development)
Material and Construction UL 758

Marking

E150612 AWM STYLE 20744 PCIe 5.0 30AWG 80C
30V 85ohm FT2 YYYYMMDD HH:mm ,XXXXFEET

Packaging

Plastic Reel

Physical & Electrical Characteristics (at 20°C)

Voltage rating	30V
Temperature rating	80°C (105°C for 22082)
Conductor DC resistance	≤ 376 Ω/km
Dielectric strength	0.5 KV /min
Insulation resistance	≥ 100 MΩ · km
Impedance	85+/-5 Ω
Delay	<4.9ns/m
Intra pair skew	<10ps/m



Transmission Performance (at 20°C)

Frequency MHz	Attenuation (dB/3.0m) Max.	Attenuation (dB/3.0m) Nom.	
2000	-5.68	-5.18	
4000	-7.78	-7.28	
6000	-9.84	-9.04	
8000	-11.52	-10.52	
10000	-12.97	-11.87	
12000	-14.18	-13.18	
14000	-15.55	-14.55	
16000	-16.99	-15.99	
17500	-18.26	-16.76	
20000	-20.15	-18.15	
22500	-21.77	-19.77	
25000	-23.46	-21.46	
27500	-25.46	-22.46	
30000	-27.33	-24.33	
32000	-28.72	-26.72	

Parameter	Value/Formula	Frequency Range	Unit
SCD21	-22	0.01 to 32.0	GHz
SCD21 - SDD21	-12	$0.01 \leq f < 12.89$	dB
SCD21 - SDD21	$-(16 - 0.3108 * f)$	$12.89 \leq f \leq 32$	GHz