

Product Specification for a 75 Ω, RG-6/U HD/SDI Precision Video Coaxial Cable, Also Used For Local Area Network, Serial Digital Interconnects, CATVP and Video Application Plenum Rated Cable

Description: 1/C 18 AWG Solid Bare Copper, Foam Fluoropolymer Insulation, Double Shielded and Flexible Plenum LS-PVC Jacket.

A. Construction

- 1.0 Conductor: 18 AWG Solid Bare Copper; OD: .040" Nom.
- 2.0 Insulation: .065" Wall Foam Fluoropolymer; OD: .170" Nom.
- 3.0 Shield #1: Bonded-Aluminum/Polyester/Aluminum;; 100% Shield.
- 4.0 Shield #2: 36 AWG Tinned Copper Braid; 95% Nom. Coverage.
- 5.0 Jacket: .015" Flexible Plenum Rated LS-PVC: Color: See Table -1-
OD: .225" Nom.
- 6.0 Marking Surface Printed:
GENERAL CABLE (F) P/N 495025 – RG-6/U TYPE 75 OHM HD/SDI SERIAL DIGITAL COAXIAL CABLE
– 3.0 GHZ – 18 AWG CL2P (ETL) OR CMP c(ETL)us 3084997 – MADE IN USA AAAAA MM/YY
XXXXFT

AAAAA: Mfg. job number for traceability

MM/YY: Date of Mfg.

XXXXXXFT: Indicates Sequential Footage Every Two Feet

B. Electrical and Physical Characteristics:

- 1.0 Impedance: 75 Ω +/- 3 Ω
- 2.0 Capacitance: 16.0 pF/ft Nom.
- 3.0 Velocity of Propagation: 84% Nom
- 4.0 Conductor DCR: 6.51 Ω/kft Nom.
- 5.0 Shield DCR: 2.29 Ω/kft Nom.
- 6.0 Inductance: 0.092 μ/ft
- 7.0 Time Delay: 1.21 ns/ft
- 8.0 SRL: 23dB Nom. up to 500 MHz.
20dB Nom. up to 3.0 GHz.

REV	DATE	CHANGE DETAIL				
K	06/14/11	Revise print legend & attn / GT		General Cable 20 Forge Park, Franklin, Ma 02038 Phone: 508-541-7100 Fax: 508-541-8122		
J	01/18/11	Chg spec from UL to ETL / GT				
I	03/11/10	Update specs and chg print from HHT to GCC / GT				
H	11/26/08	Change jacket wall thickness and OD - ALT				
G	11/28/05	Update to Helix/Hitemp –General Cable - TS	Title:	495025		
F	6/8/04	Update Print to ETL Listing - RZ	Description:			
E	3/4/03	Change BS from 34 to 36 - RZ	Eng Approval:			
D	02/03/03	Edit SRL, BS, add p/n, Print & Format / GT	Mktg Approval:			
C	01/08/02	Change BS from 36 to 34 / GT	Final Approval:			
B	12/06/01	Edit SRL / GT				
A	06/20/01	Initial Release				

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9.0	Attenuation: (Nom.)	Frequency (MHz)	dB/100 ft.
		1	0.24
		3.58	0.45
		5	0.55
		10	0.75
		67.5	1.74
		71.5	1.78
		100	2.10
		135	2.40
		200	2.86
		270	3.40
		360	4.00
		540	5.20
		720	6.30
		900	7.48
		1000	7.90
		1450	10.22
		1800	11.84
		2000	12.58
		2250	13.80
		3000	16.30



10.0 Temp. & Voltage Ratings: -10°C to +75°C / 300 Volts Max.

11.0 Cable Weight: 36.0 lbs/kft Nom.

- C. Agencies Approvals: UL- Standard 13 and NEC Article 725 Type CL2P (ETL)
UL/CSA - Standard 444 and NEC Article 800 Type CMP c(ETL)us
- D. Flame Rating: Approved for Plenum Use without Conduit per NEC Article 725 & 800
by Passing NFPA-262 Steiner Tunnel Flame Test and CSA FT6
- E. Compliance: RoHS Compliant

<u>Part Number</u>	<u>TABLE -1- Jacket Color*</u>	<u>PUT-UPS</u>
495025.41.86	Natural	1000FT/REEL

* Available in All Colors, Consult Factory

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F	6/8/04	Update Print to ETL Listing - RZ	Description:			
E	3/4/03	Change BS from 34 to 36 - RZ	18 AWG – Dual Shielded – RG-6/U Type			
D	02/03/03	Edit SRL, BS, add p/n, Print & Format / GT	SD-Precision Video Coaxial cable			
C	01/08/02	Change BS from 36 to 34 / GT	Eng Approval:	G.T.		
B	12/06/01	Edit SRL / GT	Mktg Approval:			
A	06/20/01	Initial Release	Final Approval:			

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