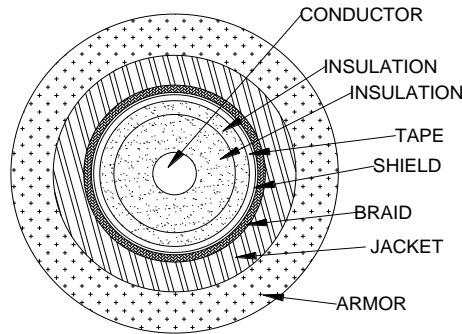


6 AWG 50 Ohm VITALink® Coaxial Circuit Integrity Cable



1. Construction:

- 1.1. Conductors: 6 AWG Solid Oxygen Free Bare Copper, 0.162" Nominal Diameter (4.11 mm)
- 1.2. Insulation: Foamed Polyethylene, 0.222" Nominal Diameter (5.64 mm)
- 1.3. Insulation: Foamed Fire-Roc® Insulation, 0.570" Nominal Diameter (14.48 mm)
- 1.4. Shield: Copper/Polyester Tape, 100% Coverage
- 1.5. Braid: 34 AWG Bare Copper, 75% Coverage
- 1.6. Tape: Heat Resistant Tape, 100% Coverage
- 1.7. Core Wrap: Black Fire-Roc®, 0.792" Nominal Diameter (20.119 mm)
- 1.8. Armor: Copper Continuously Corrugated Welded Armor, Nominal Overall Diameter 1.070" +/- .025" (27.178 mm)

1.9. Armor Print:

COMTRAN VITALink® CMR c(UL)us 1C6 AWG 75C FRR-2HR FHIT.40C/FHIT7.40C UL2196/ULC S139 MAX VOLTAGE 72V PN 36691 (MMYY) (01-12345)

Note:

MMYY is a 4-digit month/year
01-12345 = traceability number

2. Compliance:

- 2.1. c(UL)us Listed Type CMR
- 2.2. UL Subject 444 Communications Cable; 300V/75°C Classified
- 2.3. UL 2196/ULC-S139 2-Hour Fire Rating for use in FHIT/FHIT7 System 40C
- 2.4. NFPA 70 & 72
- 2.5. NFPA 130
- 2.6. NFPA 502
- 2.7. California State Fire Marshal Approved
- 2.8. RoHS Compliant



3. Physical Characteristics:

- 3.1. Nominal Weight: 725 lbs./1000 ft
- 3.2. Min Bend Radius: 10.7" (271.78 mm)
- 3.3. Maximum Pull Tension – Straight runs: 210 lbs./ft.

4. Standard Electrical Characteristics:

- 4.1. Nominal Conductor DCR: .40 Ω/1000 Ft
- 4.2. Nominal Shield Resistance: .9 Ω / 1000 Ft.
- 4.3. Inductance: .077 μH/ft. Nominal
- 4.4. Velocity of Propagation: 68% Nominal
- 4.5. Jacket Spark Test Voltage: 10,000 AC

**Note: Impedance during fire conditions tested between 40 and 60 Ohms.



TITLE:		DESCRIPTION		Comtran		 Innovative Systems. Engineered Solutions.	
DS36691		6 AWG 50 Ohm VITALink® Coaxial Circuit Integrity Cable with Armor		330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		 A Marmon Wire & Cable/Berkshire Hathaway Company	
Rev	Date	Detail		Eng.	App.		
07	06/24/21	Modified the core diameter		KB	PB		
06	06/11/21	Amended typo on 2.2		PB	KB		
05	06/02/21	Add note		PB	KB		
04	05/17/21	Added mm dimensions		PB	KB		
03	04/07/21	Removed pending status		PB	KB		
02	01/22/21	Removed ST1		PB	RN		

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6 AWG 50 Ohm VITALink® Coaxial Circuit Integrity Cable

6 AWG COAX VITALink® Electricals Under Standard Conditions

	Impedance	Return Loss	VSWR	Attenuation
MHz	Ohms	dB		dB/100 ft
100	50 ± 2	36.2	1.032	1.48
200	50 ± 2	35.0	1.036	3.24
300	50 ± 2	28.3	1.080	5.09
400	50 ± 2	26.1	1.104	6.99
500	50 ± 2	25.2	1.116	8.88
600	50 ± 2	24.4	1.129	10.99
700	50 ± 2	22.4	1.165	13.14
800	50 ± 2	20.9	1.200	15.34
900	50 ± 2	20.8	1.201	17.44
1000	50 ± 2	20.7	1.203	19.97

TITLE:		DESCRIPTION		Comtran 330A Turner Street South Attleboro, MA 02703 Phone: 508-399-7004 Fax: 508-399-8839		 COMTRAN <small>Innovative Systems. Engineered Solutions.</small>  <small>A Marmon Wire & Cable/Berkshire Hathaway Company</small>	
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