



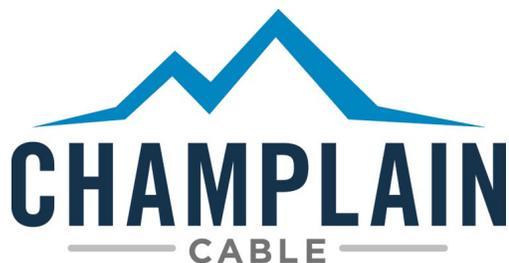
155 Metric

CE, 150°C, 600V, Non-UL/CSA

- Irradiation Crosslinked
- Highly Flexible for Easy Routing
- 150°C, 600V
- Cuts and Strips Consistently on the Latest High-speed Equipment
- RoHS and CE Compliant
- Won't Melt, Creep or Flow
- Cost-Effective Solution when UL/CSA is not required
- Resistant to Many Engine Oils, Fluids and Encapsulating Varnishes



Cross Section mm ²	Stranding Tinned Copper	Conductor Diameter mm. (Nom)	Insulation Thickness mm. (Nom)	Finished Diameter mm. (Nom)	Resistance maximum @ 20°C ohms/km	Finished Weight (kg/100m)
.25	19 X 0.13	0.63	0.41	1.45	85.9	0.4
.34	19 X .016	0.78	0.41	1.60	52.1	0.6
.50	19 X 0.18	0.89	0.41	1.70	40.1	0.7
.75	24 X 0.20	1.12	0.54	2.20	26.7	1.1
1.0	32 X 0.20	1.29	0.65	2.60	20.0	1.5
1.5	30 X 0.25	1.50	0.60	2.70	13.7	1.9
2.5	50 X 0.25	1.99	0.68	3.35	8.21	3.0
* 4.0	56 X 0.30	2.52	0.76	4.05	5.09	4.7
* 6.0	81 X 0.30	3.30	0.95	5.20	3.39	6.9
* 10	78 X 0.40	4.20	1.10	6.40	1.95	11
* 16	119 X 0.40	5.20	1.20	7.60	1.24	17
* 25	182 X 0.40	6.70	1.35	9.40	.795	25
* 35	266 X 0.40	7.90	1.45	10.80	.565	36
* 50	378 X 0.40	9.40	1.55	12.50	.393	50
* 70	348 X 0.50	11.50	1.65	14.80	.277	71
* 95	444 X 0.50	12.9	1.80	16.50	.210	90
* 120	551 X 0.51	15.00	1.85	18.70	.171	111





155 Metric

PROPERTIES	EXAR® 155
Physical:	
Temperature Rating	155 °C
Voltage Rating (Vrms)	450/750 V AC 0.25mm ² - 0.35mm ² 600/1000 V AC 0.50mm ² - 95mm ²
Flexibility - 7 days @ 180 °C	Passes
Cold Bend - 4h @ -65°C	Passes
Room Temperature UL Abrasion	2400 cycles
Shore "A" Hardness	95
Shore "D" Hardness	42
Bend Radius	3 X overall diameter 0.25mm ² - 35mm ² 4 X overall diameter 35mm ² - 95mm ²
Tensile Strength:	
Unaged	2000 PSI
Retention after 7 days @ 180 °C	100%
Elongation:	
Unaged	250%
Retention after 7 days @ 180 °C	95%
Flame Test:	
UL Horizontal (FT1)	Passes 0.25mm ² - 2.5mm ²
UL VW-1	Passes 4.0mm ² - 95mm ²
IEEE Std. 383-1974	Passes 4.0mm ² - 95mm ²
Chemical Resistance	
Acetone	Swell @23°C/24h 5-10%
Acid - H2SO4 S.G. 1.260 5%	Swell @23°C** <1%
Engine Oil - ASTM D-471 IRM-902	Swell @50°C** < 2 %
Benzene	Swell @23°C/24h Not recommended
Epoxy	Swell @23°C/24h <5%
Gasoline - ASTM D-471 Fuel C	Swell @23°C** <1%
Methanol	Swell @23°C** <1%
Toluene	Swell @23°C/24h Not recommended
Xylene	Swell @23°C/24h Not recommended
Electrical:	
Dielectric Constant	3.1
Dielectric breakdown strength (Vrms)	6,000
Oxygen Index:	
	25
Gamma Radiation Resistance - Total:	
Integral dose (Cobalt 60 @ a rate of less than 1 megarad/hr.)	200 megarads

We cannot anticipate all conditions under which this information and our products or the products of other manufacturers in combination with our products may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product combination for their own purpose. Unless otherwise agreed in writing, we sell the products without warranty, and buyers and users assume all responsibility and liability for loss and damage arising from the handling and use of our products whether used alone or in combination with other products

Manufacturing Locations:

Colchester, Vermont

El Paso, Texas

www.champcable.com

