

WIRE, POLYESTER INSULATED, AUTOMOTIVE, 50 VOLT, 150°C

The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of the referenced specifications. This document takes precedence over documents referenced herein.



Part	Conductor	Conductor	Cond	luctor			FINISH	ED WIRE		
Description	Cross	Stranding	Diar	neter	Maximum		Diameter		Maximum	Copper
	Sectional	No/Dia	(m	ım)	Resistance		(mm)		Weight	Weight
	Area	(mm)			@20 °C	Lower		Upper	(kg/km)	Information
	(mm²)				(ohms/km)	Spec	Target	Spec		Only
			Min	Max		Limit		Limit		(g/m)
62E0119-0.35-*	0.35	7/0.25	0.73	0.76	53.4	1.21	1.24	1.26	4.43	3.25
62E0119-0.50-*	0.50	19/0.18	0.82	0.91	40.1	1.36	1.38	1.41	6.21	4.65
62E0119-0.75-*	0.75	19/0.23	1.05	1.10	24.7	1.53	1.55	1.58	8.45	6.9
62E0119-1.00-*	1.00	19/0.26	1.17	1.26	19.9	1.78	1.81	1.83	11.1	8.9
62E0119-1.25-*	1.25	19/0.29	1.32	1.42	15.3	1.83	1.86	1.89	13.2	10.9
62E0119-1.50-*	1.50	19/0.32	1.46	1.51	13.7	2.05	2.07	2.10	15.8	13.3
62E0119-2.50-*	2.50	19/0.41	1.87	1.94	8.2	2.47	2.50	2.52	25.2	22.0

COLOUR CODE:

The '*' in the part number shall be replaced by a standard colour code designator in accordance with Mil Std 681. e.g. 62E0119-0.50-9 will have White insulation.

APPROVAL:

Electronic sign off - no signatures will appear.

Tyco Electronics UK Ltd. Faraday Road Dorcan SWINDON SN3 5HH Tel: +44 (0)1793 528171 Fax: +44 (0)1793 572516 TE Connectivity is a trading name of Tyco Electronics UK Ltd, Which is registered in England and Wales, number 550926. Registered office: Faraday Road, Dorcan, Swindon, SN3 5HH Website: www.te.com This drawing and the information set forth hereon are the property of Tyco Electronics UK Ltd, and are to be held in trust and confidence. Publication, duplication, disclosure or use for any purpose not expressly authorised in writing by Tyco Electronics UK Ltd is prohibited. This specification sheet takes precedence over documents referenced herein. As Tyco Electronics UK Ltd. reserve the right to make changes in construction without notice please contact Tyco Electronics UK Ltd to ensure that this document is the latest issue.



PERFORMANCE REQUIREMENTS TO THE ISSUE IN EFFECT OF THE SPECIFICATION DETAILED BELOW

WSK M1L126-A1	TEST FREQUENCY	DEFINITION	REQUIREMENTS				
Test Method (TO BS2G 230 CLAUSE 6.1*) 3.2 IL		Wire Diameter	See Contructional details.				
0.2							
Conductor							
3.3.1	V	Construction	See Constructional details.				
3.3.4	V	Outer Diameter	See Constructional details.				
3.3.7	V	Elongation	15% Min.				
3.3.8	QA	Resistance	See Constructional details.				
Insulation		Г					
3.4.1	IL	Finish	Free from flaws.				
3.4.2	IL	Colour	To Mil-Std-681.				
3.4.3	IL	Outer Diameter	See Constructional details.				
3.4.3	IL	Wall Thickness	0.15 mm Min.				
3.4.3	IL	Concentricity	70% Min.				
-	IL	Tensile Strength	30 N/ mm² Min.				
-	IL	Elongation	250% Min.				
Finished Wire							
3.6	100%	Spark Test	6 kV Impulse, no flaws.				
3.7	QA	Duration Test Voltage &	3 kV @ 30 minutes then 5 kV Min. breakdown.				
		Breakdown Voltage	No perforations.				
3.8	QA	Insulation Resistance	2 Megohms/ metre Min.				
		(Volume Resistivity)					
3.9	QA	High Temperature	150°C @ 4 Hours, 50% Max.				
		Compression					
-	QA	Heat Ageing (i)	150°C @ 3000 Hours Min. to ASTM D3032 section 14				
3.11	PQ	Heat Ageing (ii)	180°C @ 48 Hours, tensile strength 11.0 MPa Min.				
			elongation 125% Min.				
3.12	QA	Shrinkage	200 mm sample, 4% Max.				
3.13	QA	Flame Propagation	Specimen 0.5 m. burn rate 100 mm/ minute				
			Max. extinguishing time 30 secs Max.				
3.14	PQ	Low Temperature	No splits or cracks, 5kV Min.				
		Flexibility	breakdown voltage (-40°C).				
3.15	QA	Retention of core	Size 1.00 mm and below 5.0 N Min 40 N Max.				
		(strip force)	Size above 1.00 mm 10 N Min - 80 N Max.				
3.16	QA	Oil Resistance	±4% Max.Thickness change,				
			5kV Min. breakdown voltage.				
3.17	QA	Fuel Resistance	±8% Max. thickness change,				
			5kV Min. breakdown voltage.				
3.18	QA	Abrasion Resistance	As per BB101-20 Ford Spec. table 1, with the				
	44						
			exceptions of: 62E0110, 1.50 * which chall be > 500 evalues Min				
			• 62E0119-1.50-* which shall be > 500 cycles Min.				
			62E0119-2.50-* which shall be > 700 cycles Min. se of statistically derived data				

Please note that individual test frequencies may be modified through the use of statistically derived data

* The test frequency V indicates a vendor verified parameter

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