

1. CONDUCTOR

Material: See Table 1
 Construction: See Table 1
 Diameter: See Table 1

2. INSULATION

Material: Crosslinked Polyethylene
 Wall Thickness:
 Min Wall: See Table 1
 Min Avg: See Table 1
 Nom: See Table 1
 Diameter: See Table 1
 Color: SAE Color Standard
 Marking: None

3. PHYSICAL CHARACTERISTICS

Temperature rating: 125°C
 Voltage rating: 50V

4. PERFORMANCE PROPERTIES

Mechanical
 Tensile Strength
 Unaged (SAE J1128) 10 Mpa, min
 Aged (WSS-M1L123-A4)
 (168 hrs @ 160°C) 80% retention, min
 Elongation
 Unaged (SAE J1128) 150%, min
 Aged (WSS-M1L123-A4)
 (168 hrs @ 160°C) 50% retention, min
 Crosslink Verification (Hot Plate Method)
 Core Not Visible, Pass Dielectric Test
 Pinch Resistance (J1128 TXL) Per Thin Wall
 Abrasion Resistance (J1128 TXL) Per Thin Wall
 Strip Force (2" slug @ 20"/min) 4.0 lb, min

PERFORMANCE PROPERTIES (cont'd)

Electrical - SAE J1128
 Dielectric Strength 1000V, 60 Hz, 60 Sec
 Conductor DCR See Table 1
 Thermal
 Flame Resistance (J1128) 70 Sec Burn, Max
 Cold Bend (4 hrs @ -40°C, J1128)
 No Cracks or Splits, Pass Dielectric Test
 High Temperature Resistance (WSS-M1L123-A4)
 (168 hrs @ 165°C)
 No Cracks or Splits, Pass Dielectric Test

Chemical

Ozone Resistance (SAE J1128) (192 hrs @ 65°C)
 No Cracks, Pass Dielectric
 Fluid Compatibility (SAE J1128)
 O.D. Change, max
 Engine Oil (IRM 902) 15%
 Gasoline (Ref. Fuel C) 15%
 Ethanol / Ref. Fuel C Mixture 15%
 Power Steering (IRM 903) 30%
 Auto Trans. (Dexron III) 25%
 Engine Coolant 50/50 15%
 Battery Acid (sp. Gr. ~ 1.26) 5%
 Flex Fuel Compatibility (WSS-M1L123-A4)
 O.D. Change, max
 After Immersion/After Dry-out
 C[E10] +8%/-6%
 C[E85] +8%/-6%
 C[M15] +8%/-6%
 PN 180 +8%/-6%
 Mechanical (Post Dry)
 Tensile Strength 80% retention, min
 Elongation 50% retention, min

5. REFERENCE SPECIFICATION

SAE J1128
 FORD WSS-M1L123-A4



JUDD WIRE INC.
 124 Turnpike Road
 Turners Falls, MA 01376
 (413) 863-4357

Date	Rev	By	Appr'd	ECN
03/26/98	---	LW	CJ	---
04/28/09	M	EJK	ARJP	09-565
05/22/09	N	EJK	ARJP	09-586
Customer Approval:				

Description: HOOKUP, THIN WALL G12, XLPE	
Specification Number: JW573-98	Page: 1 of 2

Table 1

CONDUCTOR						INSULATION						
Size	Material	Stranding	Diameter nom (mm)	CMA min (mm)	DCR, max (mOhms/m)	Wall Thickness (mm)			Diameter (mm)			Weight nom (kg/km)
						Min	Min Avg	Nom	Min	Nom	Max	
0.30	TPC	7/25	0.75	0.30	60.2	0.305	0.365	0.406	1.48	1.55	1.63	4.96
22	BC	7/25	0.76	0.31	55.0	0.305	0.365	0.406	1.50	1.57	1.65	5.20
22	TOP	7/25	0.76	0.31	54.8	0.305	0.365	0.406	1.50	1.57	1.65	5.60
22	TPC	7/25	0.76	0.32	54.8	0.305	0.365	0.406	1.50	1.57	1.65	5.22
22	SPC	7/25	0.76	0.32	51.2	0.305	0.365	0.406	1.50	1.57	1.65	5.14
20	BC	7/32	0.96	0.54	34.6	0.305	0.365	0.406	1.70	1.78	1.85	7.42
20	BC	19/20	0.96	0.54	34.8	0.305	0.365	0.406	1.70	1.78	1.85	6.10
20	SPC	7/32	0.96	0.55	34.8	0.305	0.365	0.406	1.70	1.78	1.85	7.35
20	TPC	7/32	0.97	0.54	34.1	0.305	0.365	0.406	1.70	1.78	1.85	7.44
20	TPC	19/20	0.97	0.54	34.1	0.305	0.365	0.406	1.70	1.78	1.85	5.97
0.75	BC	19/23	1.16	0.76	22.7	0.305	0.365	0.406	1.88	1.95	2.03	9.91
18	BC	19/23	1.17	0.76	23.3	0.305	0.365	0.406	1.91	1.98	2.06	9.71
18	BC	16/26	1.19	0.80	25.2	0.305	0.365	0.406	1.91	1.98	2.06	7.94
18	TPC	16/26	1.19	0.80	25.2	0.305	0.365	0.406	1.91	1.98	2.06	7.94
18	TPC	19/23	1.12	0.76	22.5	0.305	0.365	0.406	1.91	1.98	2.06	9.82
18	TOP	19/26	1.19	0.79	20.4	0.305	0.365	0.406	1.91	1.98	2.06	12.6
18	SPC	19/25	1.18	0.90	19.0	0.305	0.365	0.406	1.91	1.98	2.06	11.1
16	BC	19/28	1.37	1.18	14.9	0.305	0.365	0.406	2.18	2.26	2.34	14.2
16	TPC	19/28	1.37	1.20	15.8	0.305	0.365	0.406	2.18	2.26	2.34	14.5
16	SPC	19/28	1.34	1.15	15.8	0.305	0.365	0.406	2.18	2.26	2.34	14.3
1.25	BC	37/21	1.47	1.13	14.7	0.305	0.365	0.406	2.19	2.27	2.35	14.8
1.50	TPC	19/31	1.50	1.39	13.0	0.305	0.365	0.406	2.22	2.30	2.38	16.1
14	BC	19/36	1.73	1.87	9.06	0.305	0.365	0.406	2.54	2.62	2.69	21.5
14	TPC	19/36	1.73	1.90	10.0	0.305	0.365	0.406	2.54	2.62	2.69	21.8
14	SPC	19/36	1.68	1.84	10.0	0.305	0.365	0.406	2.54	2.62	2.69	21.0
12	TPC	19/47	2.29	3.02	6.30	0.381	0.411	0.457	3.10	3.20	3.30	33.2



JUDD WIRE INC.
 124 Turnpike Road
 Turners Falls, MA 01376
 (413) 863-4357

Description:

**HOOKUP, THIN WALL G12,
 XLPE**

Specification Number:

JW573-98

Rev:

N

Page:

2 of 2