

1. CONDUCTOR

Material: Bare Copper
 Construction: See Table 1
 Diameter: See Table 1

2. INSULATION

Material: Crosslinked Polyethylene
 Wall Thickness: See Table 1
 Diameter: See Table 1
 Color Standard: JASO or Judd
 Marking: None

3. PHYSICAL CHARACTERISTICS

Temperature Rating: 120 °C
 Voltage Rating: 60 V
 Weight: See Table 1

4. PERFORMANCE PROPERTIES

Mechanical
 Tensile Strength (JIS C 3005) 10.3 Mpa, min.
 Elongation (JIS C 3005) 150%, min.
 Crosslinking Degree (JASO D 608) 50%, min.
 Abrasion Resistance (JASO D 608)
 7 N, 0.45 mm, See Table 1

PERFORMANCE PROPERTIES (Cont'd)

Electrical – JASO D 608
 Dielectric Strength 1000 V, 60 Hz, 60 s
 Spark Test 5000 V_{ac}
 Conductor
 DC Resistance (JIS C 3005) See Table 1

Thermal – JASO D 608
 Heat Resistance I (240 hr @ 150 °C)
 1000 V, 60 Sec, No Cracks
 Heat Resistance II (30 min @ 200 °C)
 No Cracks, No Melt
 Flame Resistance 30 s Burn, max.
 Low Temperature Resistance (3 hr @ -45 °C)
 1000 V, 60 s, No Cracks
 Thermal Shrinkage (15 min @ 150 °C) 4 %, max.

Chemical – JASO D 608
 Oil Resistance (20 hr @ 50 °C)
 1000 V, 60 s, No Cracks

5. REFERENCE SPECIFICATIONS

JASO D 608
 JIS C 3005

Table 1

Wire Size (Nominal)	Conductor				Insulation					Weight (Nominal)	Abrasion Resistance
	Stranding /Diameter	Cross Sectional Area (Nominal)	Diameter	Resistance	Wall Thickness		Diameter				
			Nom.	Max.	Min.	Min. Avg.	Nom.	Nom.	Max.		
(mm ²)	(no./mm)	(mm ²)	(mm)	(mΩ/m)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg/km)	(# Cycles)
0.30 ^{Note1}	7 / 0.26	0.38	0.80	50.2	0.24	0.27	0.30	1.40	1.50	4.71	100
0.30f	19 / 0.16	0.38	0.80	48.8	0.24	0.27	0.30	1.40	1.50	4.81	100
0.50f	19 / 0.19	0.54	1.00	34.6	0.24	0.27	0.30	1.60	1.70	10.7	300
0.75f	19 / 0.23	0.79	1.20	23.6	0.24	0.27	0.30	1.80	1.90	15.5	350
1.25f	37 / 0.21	1.28	1.50	14.6	0.24	0.27	0.30	2.10	2.20	14.0	500
2.00f	37 / 0.26	1.96	1.80	9.50	0.32	0.36	0.40	2.60	2.70	21.8	1500

Note 1: 0.30mm² is not a standard JASO AESSX construction.



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Date	Rev	By	Appr'd	ECN
04/25/17	---	CMS	RMB	---
08/03/18	B	YM	RMB	18-1939
04/26/19	C	MJM	RTB	19-1973

Customer Approval:

Description: HOOKUP, AESSX, XLPE, 120°C, 60 V, BC	
Specification Number: JW1687-17	Page: 1 of 1