

Metric Cables (Pty) Ltd

87 NEWTON ROAD
MEADOWDALE
GAUTENG

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BEDFORDVIEW 2008
2008

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RAILWAY ROLLING STOCK

CABLE DESCRIPTION

Flexible EPM EVA single core Railway Rolling Stock Cable. South African manufactured Direct Current power cables for locomotives and coaches. Manufactured in accordance to Transnet's specifications RS/EE/SP/015 Table 6.

PROPERTIES

Conductor:	Tinned annealed class 5 copper according to SANS 1411-1
Outer Sheath:	Halogen free, flame retardant EVA Type HFS1 according to SANS 1411-5
Inner Insulation:	Black EPM, Type HFB1 for protected and exposed installations according to SANS 1411-5
Voltage/Colours:	500 volts DC, and 1,000 volts DC, light green outer sheath 3,000 volts DC, red or grey outer sheath 6,000 volts DC, black outer sheath
Operating Temp:	85°C (at an ambient temperature of 10°C to 50°C)
Packaging:	100m coils, 500m drums or 1,000m drums
Special Features:	Flexible, halogen free, flame retardant & oil resistant
Min Bending Radius:	8 x outer diameter
Test Method:	According to SANS 6282-1 and SANS 5524, conductor and insulation resistance
Spark Test:	Inline during manufacture: SANS 5524 @ 9 kV DC Withstand 15min after 1 hour in water: SANS 6284-3 @ 11kV rms

TECHNICAL DATA

	Product Code	Size mm ²	Conductor Resistance Ω/km @ 20°C	Insulation Resistance MΩ/km	OD min mm	OD max mm	Mass Kg/1km
Protected	Loco0025Pro	2.5	8.21	850	8.8	10.0	110
	Loco0040Pro	4	5.09	750	9.3	10.5	140
	Loco0060Pro	6	3.39	670	9.6	11.6	150
	Loco0100Pro	10	1.95	580	10.6	12.8	190
	Loco0160Pro	16	1.24	490	12.2	14.1	260
	Loco0250Pro	25	0.795	420	13.9	15.6	360
	Loco0350Pro	35	0.565	370	16.6	17.3	520
	Loco0500Pro	50	0.393	330	17.0	18.8	640
	Loco0700Pro	70	0.277	280	19.4	20.8	860

	Loco0950Pro	95	0.210	250	21.6	23.0	1,130
	Loco1200Pro	120	0.164	220	23.6	25.0	1,430
	Loco1500Pro	150	0.132	210	25.6	27.0	1,770
Exposed	Loco0700Exp	70	0.277	330	22.9	24.3	1,020
	Loco0950Exp	95	0.210	300	24.9	26.3	1,300
	Loco1200Exp	120	0.164	250	26.3	28.3	1,620
	Loco1500Exp	150	0.132	220	28.3	30.3	1,970
	Loco1850Exp	185	0.108	200	30.6	32.6	2,370
	Loco2400Exp	240	0.082	210	33.6	35.6	2,860