



<b>APPLICATION</b>  Easi-peel sheath for general wiring, unenclosed, in conduit, buried direct or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage.  Suitable for glanding.	<b>STANDARD VOLTAGE</b>	AS/NZS 5000.2 450/750V
	<b>CONDUCTOR INSULATION</b>	Copper 1 – 25mm <sup>2</sup> PVC, V-90 Black, Red or White
	<b>SHEATH</b>	PVC, 3V-90 White (25mm <sup>2</sup> White or Black)
	<b>MAX. OPERATING TEMP.</b>	90°C

Item Number	Conductor		Overall Diameter		Approx. Mass Kg/Km	Minimum Installed Bending Radius mm
	mm <sup>2</sup>	(No./mm)	Minimum (mm)	Maximum (mm)		
DC109/y	1	1/1.13	3.9	4.2	20	20
DC129/y	1.5	7/0.50	4.3	4.6	25	20
DC149/y	2.5	7/0.67	5.0	5.3	35	25
DC159/y	4	7/0.85	5.9	6.2	55	30
DC169/y	6	7/1.04	6.4	6.8	70	35
DC179/y	10	7/1.35	7.6	8.1	120	40
DC189/y	16	7/1.70	8.9	9.4	180	45
DC199/y	25	19/1.35	11.0	11.5	285	60

y= 1 for Black  
 y= 2 for Red  
 y= 3 for White

CONDUCTOR	CURRENT RATING (a)			ELECTRICAL CHARACTERISTICS			
Nominal Area	Unenclosed In Air	Buried Direct	Buried In Ducts	Maximum DC Resistance @20°C	Maximum AC Resistance @90°C	Equivalent Star Reactance (Trefoil)	3 Phase Voltage Drop (Trefoil) @90°C
mm <sup>2</sup>	A	A	A	Ω/km	Ω/km	Ω/km	mV/Am (b)
1	13	18	18	21.2	27.0	0.168	46.8
1.5	16	23	23	13.6	17.3	0.157	30.0
2.5	23	32	32	7.41	9.45	0.143	16.4
4	31	41	41	4.61	5.88	0.137	10.2
6	40	52	52	3.08	3.93	0.128	6.81
10	54	69	69	1.83	2.33	0.118	4.05
16	72	122	89	1.15	1.47	0.111	2.55
25	97	158	116	0.727	0.927	0.106	1.62

(a) Based on 40°C ambient air temperature and where applicable, burial depth of 0.5m, soil temperature of 25°C and soil resistivity of 1.2°C.m/W.

(b) For single phase voltage drop, multiply by 1.155.

The above information is from the following sources:

AS/NZS 3008.1.1:2009 (tables 4, 30, 34, 40)  
AS 1125:2001 (table 2.3)

For installation with thermal insulation refer to AS/NZS 3008 for de-rating factors.

Do not put in direct contact with polystyrene, polyurethane or similar thermal insulation materials.

# *DOMINION WIRE & CABLES LTD.*

**QUALITY CABLE MANUFACTURES, DISTRIBUTORS AND EXPORTERS**

**LOT 3, KINGS ROAD, YALALEVU, BA. P.O. BOX 1562, BA, FIJI.**

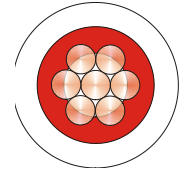
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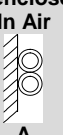


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<b>APPLICATION</b>  Easi-peel sheath for general wiring, unenclosed, in conduit, buried direct or in underground ducts for domestic, commercial and industrial installations where not subject to mechanical damage.  Suitable for glanding.	<b>STANDARD VOLTAGE</b>	AS/NZS 5000.1 600/1000V
	<b>CONDUCTOR INSULATION</b>	Copper 1 – 630mm <sup>2</sup> PVC, V-90 Black, Red or White
	<b>SHEATH</b>	PVC, 5V-90 Orange
	<b>MAX. OPERATING TEMP.</b>	90°C

Item Number	Conductor		Overall Diameter		Approx. Mass Kg/Km	Minimum Installed Bending Radius mm
	mm <sup>2</sup>	(No./mm)	Minimum (mm)	Maximum (mm)		
DC109/y	1	1/1.13	5.6	6.0	50	35
DC129/y	1.5	7/0.50	5.9	6.4	60	40
DC149/y	2.5	7/0.67	6.4	6.8	80	40
DC159/y	4	7/0.85	7.3	7.8	110	50
DC169/y	6	7/1.04	7.8	8.3	140	50
DC179/y	10	7/1.35	8.7	9.2	170	55
DC189/y	16	7/1.70	9.7	10.3	230	60
DC199/y	25	19/1.35	11.9	12.5	370	75
DC1109/y	35	19/1.53	12.9	13.4	450	80
DC1119/y	50	19/1.78	14.5	15.1	600	90
DC1129/y	70	19/2.14	16.3	16.9	800	100
DC1139/y	95	37/1.78	18.7	19.3	1100	115
DC1149/y	120	37/2.03	20.2	21.5	1300	120
DC1159/y	150	37/2.25	22.4	23.7	1600	130
DC1169/y	185	37/2.52	24.8	26.3	2060	145
DC1179/y	240	61/2.25	28.1	29.7	2550	165
DC1189/y	300	61/2.52	31.1	32.8	3150	180
DC1199/y	400	61/2.85	34.7	36.5	4300	200
DC11109/y	500	61/3.20	38.4	40.4	5300	220
DC1119/y	630	90/3.00	42.6	44.8	6710	250

y= 1 for Black  
y= 2 for Red  
y= 3 for White

CONDUCTOR Nominal Area  mm <sup>2</sup>	CURRENT RATING (a)			ELECTRICAL CHARACTERISTICS			
	Unenclosed In Air  A	Buried Direct  A	Buried In Ducts  A	Maximum DC Resistance @20°C  Ω/km	Maximum AC Resistance @90°C  Ω/km	Equivalent Star Reactance (Trefoil)  Ω/km	3 Phase Voltage Drop (Trefoil) @90°C  mV/Am (b)
1	13	18	18	21.2	27.0	0.168	46.8
1.5	16	23	23	13.6	17.3	0.157	30.0
2.5	23	32	32	7.41	9.45	0.143	16.4
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6	40	52	52	3.08	3.93	0.128	6.81
10	54	69	69	1.83	2.33	0.118	4.05
16	72	122	89	1.15	1.47	0.111	2.55
25	97	158	116	0.727	0.927	0.106	1.62
35	119	190	139	0.524	0.668	0.101	1.17
50	146	225	168	0.387	0.494	0.0962	0.872
70	184	277	206	0.268	0.342	0.0917	0.615
95	230	332	252	0.193	0.247	0.0904	0.457
120	267	378	287	0.153	0.197	0.087	0.373
150	308	424	329	0.124	0.160	0.0868	0.316
185	358	480	373	0.0991	0.129	0.0862	0.269
240	428	556	438	0.0754	0.0991	0.0847	0.227
300	495	628	496	0.0601	0.0803	0.0839	0.202
400	577	713	575	0.0470	0.0646	0.0829	0.183
500	668	805	649	0.0366	0.0525	0.082	0.170
630	770	904	750	0.0283	0.0432	0.080	0.159

(a) Based on 40°C ambient air temperature and where applicable, burial depth of 0.5m, soil temperature of 25°C and soil resistivity of 1.2°C.m/W

(b) For single phase voltage drop, multiply by 1.155.

The above information is from the following sources:

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