SINGLE CORE ALUM

0.6/1kV 1C FLEX AL XLPE/PVC NAT/BK

For mains, submains and subcircuits unenclosed, enclosed in conduit, buried or in under ground ducts for building and industrial plants where not subject to mechanical damage. Suitable where space is at a premium and/or where conditions of overload may occur.

APPLICATIONS

Building Installations;Residential Installations

CABLE CONSTRUCTION

CONDUCTOR: Flexible Annealed Aluminum Conductor **- CLASS 5**
INSULATION: X-90 XLPE **CORE COLOUR**: NATURAL
SHEATH: 5V-90 PVC **COLOUR:** Black

STANDARDS & APPROVALS

AS/NZS 5000.1	Cable Standard
AS/NZS 1125	Conductor Standard
AS/NZS 3808	Material Standard
AS/NZS IEC 60332-1	Flame Propagation Standard
GREEN STAR	Best Practice PVC Green Star Approval

CABLE CHARACTERISTICS

Eco cable	No	Low smoke	No
Rated voltage U0/U (Um)	0.6/1 (1.2) kV	Halogen free	No
Max. conductor temperature [°C]	90	Resistant to UV	Low
Flame retardant	Yes		

RECOMMENDED INSTALLATION ENVIRONMENTS

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PHYSICAL CHARACTERISTICS

Nominal cross section conductor [mm²]	Part number	Conductor strand count	Diameter conductor [mm]	Cable nominal diameter [mm]	Maximum pulling tension conductor [N]	Maximum pulling tension stocking [N]	Cable nominal weight [kg/km]	Minimum bending radius - installed [mm]	Minimum bending radius - during Installation [mm]
50	20308320	231/0.50	9.7	14.7	2,500	1,800	250	60	90
70	20308315	342/0.50	11.8	17	3,500	2,000	350	70	105
95	20308314	456/0.50	13.7	19.1	4,800	2,300	450	80	115
120	20308312	589/0.50	15.6	21.2	6,000	2,500	550	85	130
150	20308313	722/0.50	17.3	23.5	7,500	2,800	650	95	145
185	20308316	896/0.50	19.6	26.2	9,300	3,100	800	160	240
240	20308317	1184/0.50	22.2	29.2	12,000	3,500	1,000	175	265
300	20308318	1482/0.50	27	34.4	15,000	4,100	1,250	210	310
400	20308319	1891/0.50	28	36	20,000	4,300	1,550	220	325
500	20380612	1736/0.60	32.5	41.1	25,000	4,900	1,950	250	370
630	20380611	2223/0.50	36.6	46	25,000	5,500	2,500	280	415

ELECTRICAL CHARACTERISTICS

Nominal cross section conductor [mm²]	Part number	DC Resistance at 20°C (Maximum) [Ω/km]	AC Resistance (Maximum) at operating temperature [Ω/km]	Current carrying capacity (in ground) [A]	Current carrying capacity (in air) [A]
50	20308320	0.641	0.822	146	166
70	20308315	0.443	0.568	186	203
95	20308314	0.32	0.411	232	243
120	20308312	0.253	0.325	271	277
150	20308313	0.206	0.265	313	310
185	20308316	0.164	0.212	365	352
240	20308317	0.125	0.162	438	409
300	20308318	0.105	0.13	508	463
400	20308319	0.0778	0.103	599	530
500	20380612	0.0605	0.0813	703	604
630	20380611	0.0469	0.0649	824	688

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