

SINGLE CORE ALUM

0.6/1KV 1C CAL XLP NAT/BK



For mains, submains and subcircuits unenclosed, enclosed in conduit, buried or in underground ducts for building and industrial plants where not subject to mechanical damage.

APPLICATIONS

Building Installations; Residential Installations

CABLE CONSTRUCTION

CONDUCTOR: Plain Annealed Aluminum conductor - **CLASS 2**

INSULATION: X-90 XLPE **CORE COLOUR:** NATURAL **SHEATH:** 5V-90 PVC **COLOUR:** Black

STANDARDS & APPROVALS

AS/NZS 5000.1

AS/NZS 1125

AS/NZS 3808

AS/NZS IEC 60332-1

GREEN STAR

Cable Standard

Conductor Standard

Material Standard

Flame Propagation Standard

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	Good
Flame retardant	Yes		

RECOMMENDED INSTALLATION ENVIRONMENTS

- Industrial Equipment
- In Trench
- Machines
- In Ground with Protection
- In Free Air
- In Duct
- In Conduit
- External Building

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PHYSICAL CHARACTERISTICS

Nominal cross section conductor [mm ²]	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]
25	20292160	7/2.15	6.1	10.9	1,300	1,300	150	90	130
35	20292159	7/2.60	7.1	11.9	1,800	1,400	200	95	145
50	20199767	7/3.06	8.1	13.1	2,500	1,600	250	105	160
70	20199768	19/2.24	9.8	15	3,500	1,800	350	120	180
95	20199769	19/2.60	11.5	16.9	4,800	2,000	400	135	205
120	20199771	19/2.92	12.9	18.5	6,000	2,200	500	150	225
150	20199772	19/3.28	14.2	20.4	7,500	2,400	600	165	245
185	20199773	37/2.60	16	22.6	9,300	2,700	750	180	275
240	20199774	37/3.03	18.1	25.1	12,000	3,000	950	205	305
300	20199777	37/3.36	20.6	28	15,000	3,400	1,150	225	340
400	20199780	60/2.92	23.5	31.5	20,000	3,800	1,450	255	380
500	20199782	60/3.35	26.5	35.1	25,000	4,200	1,850	280	425
630	20199783	60/3.80	30.2	39.6	25,000	4,800	2,350	320	475

ELECTRICAL CHARACTERISTICS

Nominal cross section conductor [mm ²]	Part number	DC Resistance at 20°C (Maximum) [Ω/km]	AC Resistance (Maximum) at operating temperature [Ω/km]	Conductor short circuit fault rating [kA for 1 sec]	Current carrying capacity (in ground) [A]	Current carrying capacity (in air) [A]
25	20292160	1.2	1.54	2.4	97	117
35	20292159	0.868	1.11	3.3	119	140
50	20199767	0.641	0.822	4.7	146	166
70	20199768	0.443	0.568	6.6	186	203
95	20199769	0.32	0.411	9	232	243
120	20199771	0.253	0.325	11.3	271	277
150	20199772	0.206	0.265	14.2	313	310
185	20199773	0.164	0.212	17.5	365	352
240	20199774	0.125	0.162	22.7	438	409
300	20199777	0.1	0.13	28.4	508	463
400	20199780	0.0778	0.103	37.8	599	530
500	20199782	0.0605	0.0813	47.3	703	604
630	20199783	0.0469	0.0649	59.5	824	688

*CURRENT CARRYING CAPACITY IS BASED ON 3 PHASES

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