ALL ALUMINIUM ALLOY CONDUCTOR (AAAC)

APPLICATION

AAAC is recommended for use as bare overhead conductor for primary and secondary distribution and in cases where high strength-to-weight ratio is required.

STANDARD

ASTM B-398 & B-399

IEC 61089

BS EN 50182

CONSTRUCTION

Conductor: Stranded Aluminium Alloy wire, T81 to ASTM B-398

PHYSICAL DATA							TECHNICAL DATA	
REB Item Code	Code Name	Size	Nominal Area of conductor	Number of strands & diameter of wire	Approx. diameter of conductor	Approx. weight of conductor	Minimum breaking load of conductor	Max. D.C resistance of conductor at 20 ˚C
		kcmil	mm²	no./mm	mm	kg/km	kgf	W/km
D-29	AMES	77.47	40	7/2.67208	8.0264	108.5	1270	0.8532
D-30	AZUSA	123.3	60	7/3.37058	10.1092	172.5	2023	0.535
D-31	ALLIANCE	246.9	125	7/4.77012	14.3002	345.7	3883	0.2678
D-32	DARIEN	559.5	280	19/4.35864	21.7932	783.2	8528	0.118
D-33	GREELY	927.2	470	37/4.02082	28.1432	1289	13800	0.0715

WATER BLOCKED CONCENTRIC CABLES

APPLICATION

Split concentric cables are predominantly used by Distribution Network Operators (DNO's) when providing the final service connection to domestic properties.

Split concentric cables are also suitable for sub main distribution and have been found to be particularly useful within high rise buildings and street lighting systems.

These cables are designed to be installed in air or for burial in free draining soil conditions.

STANDARD

IEC 60502-1

VOLTAGE GRADE

600/1000 V

CONSTRUCTION

Phase Conductor: Circular, Plain hard copper to ASTM B-1

Phase Insulation: XLPE to IEC 60502-1

Neutral conductor: Solid, Plain annealed copper to ASTM B-3

Neutral Insulation: Polyethylene to IEC 60502-1

Earth conductor: Solid, Plain annealed copper to ASTM B-3

Filler: Polyethylene

Binder: Polyester Tape

Sheath: Polyethylene to IEC 60502-1

PHYSICAL DATA									TECHNICAL DATA
Nominal cross section area of conductor	No. of strands & diameter of wires	Nominal cross sectional area of neutral conductor	No. of strands & diameter of wires	Nominal cross sectional area of earth conductor	No. of strands & diameter of wires	Nominal thickness of insulation	Approx. Overall diameter of cable	Approx. weight of cable	Maximum D.C resistance of conductor at 20 ˚C
no. x mm²	no./mm	mm²	no./mm	mm²	no./mm	mm	mm	kg/km	W/km
1x6 rm	7/1.04	6	7/1.05	4.5	3/1.4	1.0	11.2	225	3.08
1x16 rm	7/1.67	16	7/1.76	10.5	3/2.2	1.0	15.3	505	1.19