

Allied Export

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Allied Cables Ltd

Item code
T - 1745

TECHNICAL SPECIFICATION

For 1x70 AL/XLPE +N70 mm² AL ALLOY / XLPE Aerial Bundled Cable

- | | | | |
|----|---|---|------------------------|
| 1 | NAME OF MANUFACTURER | → | ACL |
| 2 | COUNTRY OF MANUFACTURE | → | |
| 3 | APPLICABLE STANDARDS | → | NFC 33-209 (1996) |
| 4 | NUMBER OF STRANDS IN | | |
| | I. PHASE CONDUCTORS | → | 12 |
| | II. NEUTRAL CONDUCTOR | → | 7 |
| 5 | TYPE OF CONDUCTOR | | |
| | I. PHASE CONDUCTORS | → | Compacted Aluminium |
| | II. NEUTRAL CONDUCTOR | → | Stranded Al Alloy 6201 |
| 6 | TYPE OF INSULATION | | |
| | I. PHASE CONDUCTORS | → | XLPE |
| | II. NEUTRAL CONDUCTOR | → | XLPE |
| 7 | NOMINAL CROSS - SECTIONAL AREA OF ; | | |
| | I. PHASE CONDUCTORS | → | 70 mm ² |
| | II. NEUTRAL CONDUCTOR | → | 70 mm ² |
| 8 | MAXIMUM LINEAR RESISTANCE OF CONDUCTOR AT 20 ^o C FOR ; | | |
| | I. PHASE CONDUCTORS | → | 0.443 ohm / km |
| | II. NEUTRAL CONDUCTOR | → | 0.5 ohm / km |
| 9 | MINIMUM BREAKING STRENGTH OF ; | | |
| | I. PHASE CONDUCTORS | → | 840 daN |
| | II. NEUTRAL CONDUCTOR | → | 2050 daN |
| 10 | NOMINAL DIAMETER OF STRANDS OF ; | | |
| | I. NEUTRAL CONDUCTORS (Nom.) | → | 3.5 mm |
| 11 | DIAMETER OF BARE CONDUCTORS | | |
| | I. PHASE CONDUCTORS (Max.) | → | 10.2 mm |
| | (min.) | → | 9.7 mm |
| | II. NEUTRAL CONDUCTOR (Avg.) | → | 10.5 mm |
| 12 | THICKNESS OF INSULATING SHEATH | | |
| | I. PHASE CONDUCTORS (Avg.) | → | 1.8 mm |
| | (min.) | → | 1.52 mm |
| | II. NEUTRAL CONDUCTOR (Avg.) | → | 1.6 mm |
| | (min.) | → | 1.34 mm |

CONTINUED

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- | | | | |
|----|--|--------|-------------------------------|
| 13 | INSULATED CABLE OUT SIDE DIAMETER | | |
| | I. PHASE CONDUCTORS | (Max.) | → 14.2 mm |
| | | (min.) | → 13.3 mm |
| | II. NEUTRAL CONDUCTOR | (Avg.) | → 13.7 mm |
| 14 | MAXIMUM LAY PITCH | | |
| | I. COMPLETE CABLE | (max.) | → 1000 mm |
| | II. NEUTRAL CORE | (max.) | → 274 mm |
| 15 | LAY DIRECTION | | |
| | I. NEUTRAL CORE | | → LEFT |
| | II. COMPLETE CABLE | | → RIGHT |
| 16 | CORE IDENTIFICATION | | |
| | I. PHASE CONDUCTORS | | → Phase - one ridge |
| | II. NEUTRAL CONDUCTOR | | → Plain |
| 17 | EMBOSSING ON NEUTRAL | | → Manufacturer's Name |
| 18 | CO-EFFICIENT OF LINEAR EXPANSION | | |
| | I. AL CONDUCTORS | | → 23×10^{-6} per 0 C |
| | II. AL ALLOY CONDUCTORS | | → 23×10^{-6} per 0 C |
| 19 | MODULES OF ELASTICITY | | |
| | I. ALUMINIUM CONDUCTOR | | → 56000 Mpa |
| | II. ALUMINIUM ALLOY CONDUCTOR | | → 62000 Mpa |
| 20 | CURRENT CARRYING CAPACITY IN PHASE
AT 30°C AIR & CONDUCTOR TEMP. 90°C | | → 213 A |

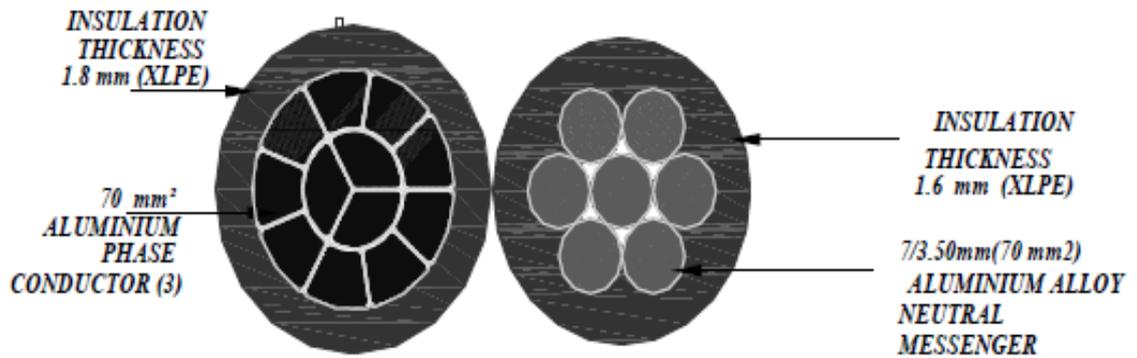


Electrical Engineer
Technical Services Department
ACL

Allied Cables Ltd

CABLE DRAWING

ACL(C) : QF:02:06:04(TSD)



Electrical Engineer
 Technical Services Department
 ACL Cables

All dimensions are in mm

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CHECKED :	Eng.Ex.	APPROVED :	EE (TSD)
DATE :	28-Jan-16	SCALE :	not to scale