

# Allied Export

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# Allied Cables Ltd

Item code

**N-34**

## **TECHNICAL SPECIFICATION**

*For 3x70 + N 70 mm<sup>2</sup> Aerial Bundled Cable*

- |    |   |   |                                 |
|----|---|---|---------------------------------|
| 1  | NAME OF MANUFACTURER  | → | ACL CABLES PLC                  |
| 2  | COUNTRY OF MANUFACTURE  | → | United Kingdom                  |
| 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   | → | Circular Compacted Aluminium    |
|    | II. NEUTRAL CONDUCTOR   | → | Circular Strand Aluminium Alloy |
| 6  | NOMINAL CROSS - SECTIONAL AREA OF ;                               |   |                                 |
|    | I. PHASE CONDUCTORS   | → | 70 mm <sup>2</sup>              |
|    | II. NEUTRAL CONDUCTOR   | → | 70 mm <sup>2</sup>              |
| 7  | MAXIMUM LINEAR RESISTANCE OF CONDUCTOR AT 20 <sup>0</sup> C FOR ; |   |                                 |
|    | I. PHASE CONDUCTORS   | → | 0.443 ohm / km                  |
|    | II. NEUTRAL CONDUCTOR   | → | 0.5 ohm / km                    |
| 8  | MINIMUM BREAKING STRENGTH OF ;                                    |   |                                 |
|    | I. PHASE CONDUCTORS   | → | 840 daN                         |
|    | II. NEUTRAL CONDUCTOR   | → | 2050 daN                        |
| 9  | DIAMETER OF BARE CONDUCTORS                                       |   |                                 |
|    | I. PHASE CONDUCTORS (nominal.)                                    | → | 9.9 mm                          |
|    | II. NEUTRAL CONDUCTOR (nominal.)                                  | → | 10.5 mm                         |
| 10 | THICKNESS OF INSULATING SHEATH                                    |   |                                 |
|    | I. PHASE CONDUCTORS (Avg.)  | → | 1.8 mm                          |
|    | (min.)  | → | 1.52mm                          |
|    | II. NEUTRAL CONDUCTOR (Avg.)                                      | → | 1.6 mm                          |
|    | (min.)  | → | 1.34 mm                         |

CONTINUED

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- 11 INSULATED CABLE OUT SIDE DIAMETER
- I. PHASE CONDUCTORS (nominal.) → 13.5 mm
  - II. NEUTRAL CONDUCTOR (nominal.) → 13.7 mm
- 12 MAXIMUM LAY PITCH
- I. NEUTRAL CORE (max.) → 274 mm
- 13 LAY DIRECTION
- I. PHASE CONDUCTORS → RIGHT
  - II. NEUTRAL CONDUCTOR → LEFT
- 14 MAXIMUM LAY PITCH
- I. COMPLETE CABLE (max.) → 1000 mm
- 15 LAY DIRECTION
- I. COMPLETE CABLE → RIGHT
- 16 CORE IDENTIFICATION
- I. PHASE CONDUCTORS → Phase 1 - one ridge Phase 2 - Two ridges  
Phase 3 - Three ridges
  - II. NEUTRAL CONDUCTOR → Plain
- 17 EMBOSSING ON NEUTRAL → Manufacturer's Name
- 18 CO-EFFICIENT OF LINEAR EXPANSION
- I. AL CONDUCTORS →  $23 \times 10^{-6}$  per 0 C
- 19 MODULES OF ELASTICITY
- I. ALUMINIUM CONDUCTOR → 56000 Mpa
- 20 CURRENT CARRYING CAPACITY IN PHASE  
AT 30°C AIR & CONDUCTOR TEMP. 90°C → 213 A

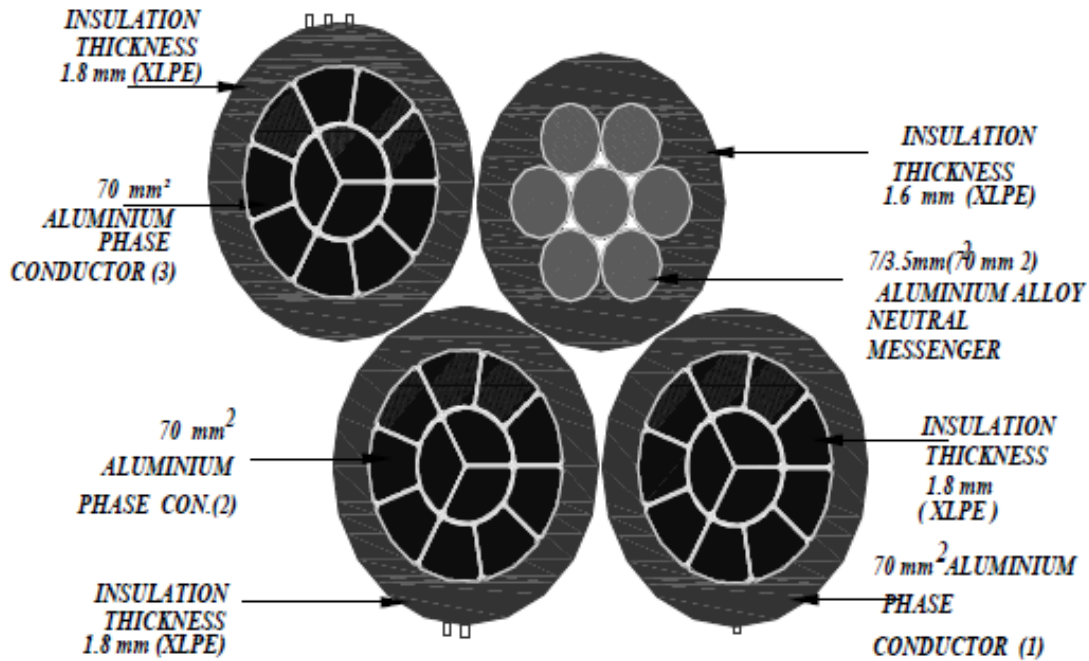


Electrical Engineer  
Technical Services Department  
ACL

# Allied Cables Ltd

## CABLE DRAWING

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



Electrical Engineer  
 Technical Services Department  
 ACL Cables PLC

All dimensions are in mm

**Allied  
 Cables**

3 x 70mm<sup>2</sup> AL/XLPE +N 70 mm<sup>2</sup> AL ALLOY/XLPE Aerial Bundled Cable

ITEM CODE : N - 34

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