

Control and Instrumentation Cables

PAS/BS5308 Part I, XLPE, Type I

LSZH-HFFR Sheath

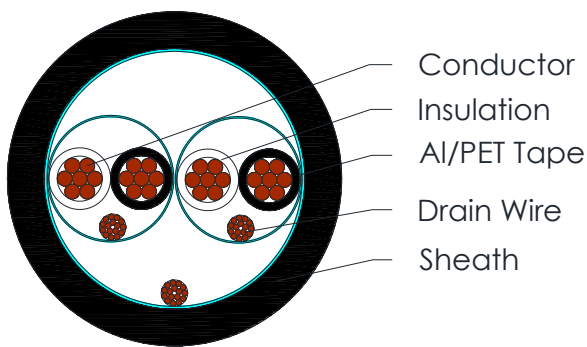


C3533 to C3539 C3610 to C3617 C3686

Applications

Process control, equipment interconnection, typically in chemical and petrochemical locations.

Cross Section Drawing



Design

| Unit | Properties |
|--------------------------------------|--|
| Conductor | Plain copper wire |
| Insulation | XLPE |
| Twinning | Pair construction Color: Black and white with serial Number |
| Individual Screening (If applicable) | Aluminum/Polyester tape with Tinned copper drain wire |
| Collective Screening | Aluminum/Polyester tape with Tinned copper drain wire |
| Sheath Material | UV resistant Halogen Free Flame Retardancy (LSZH-HFFR) Standard Colour: Black |
| Standard Put Up Length | 305M or 500m |

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Electrical Characteristics at 20°C

| Conductor Size(sqmm) | Conductor Construction | Max. DCR (Ohm/km) | Max. Mutual Capacitance (pF/m) at 1KHz | Max. Mutual Capacitance unbalance (pF/500m) at 1KHz | Test voltage between conductors and between conductors and screen (V r.m.s.) | Max. L/R ratio (μH/Ω) | Rating Voltage (Vrms) |
|----------------------|------------------------|-------------------|--|---|--|-----------------------|-----------------------|
| 1.00 | 1*1.13 | 18.4 | 115 | 500 | 1000 | 25 | 500 |
| 1.50 | 7*0.53 | 12.3 | 120 | 500 | 1000 | 40 | 500 |

Constructional Information

Part 1: Type1: Collectively Screened

| P/N | Number of Pairs | Conductor Construction (sq mm) | Nom. Radial Thickness of Insulation (mm) | Drain wire cross section (sq mm) | Nom. Thickness of Jacket (mm) | Overall Diameter (mm) | Nom. Weight (kg/km) |
|-------|-----------------|--------------------------------|--|----------------------------------|-------------------------------|-----------------------|---------------------|
| C3686 | 1 | 1.00 (1.13) | 0.60 | 0.50 | 1.20 | 7.2 | 61.6 |
| C3610 | 1 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.20 | 8.1 | 79.2 |
| C3611 | 2 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.20 | 12.9 | 142.2 |
| C3612 | 4 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.30 | 15.9 | 238.7 |
| C3613 | 5 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.30 | 17.0 | 281.7 |
| C3614 | 6 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.30 | 18.6 | 327.4 |
| C3615 | 8 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.50 | 20.6 | 429.0 |
| C3616 | 12 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.50 | 25.1 | 605.3 |
| C3617 | 20 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.70 | 30.8 | 964.5 |

Part 1: Type1: Individually & Collectively Screened

| P/N | Number of Pairs | Conductor Construction (sq mm) | Nom. Radial Thickness of Insulation (mm) | Drain wire cross section (sq mm) | Nom. Thickness of Jacket (mm) | Overall Diameter (mm) | Nom. Weight (kg/km) |
|-------|-----------------|--------------------------------|--|----------------------------------|-------------------------------|-----------------------|---------------------|
| C3533 | 2 | 1.00 (1.13) | 0.60 | 0.50 | 1.20 | 12.0 | 124.0 |
| C3534 | 5 | 1.00(1*1.13) | 0.60 | 0.50 | 1.20 | 15.2 | 233.2 |
| C3535 | 10 | 1.00(1*1.13) | 0.60 | 0.50 | 1.30 | 21.6 | 430.5 |
| C3537 | 2 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.20 | 13.70 | 149.1 |
| C3538 | 5 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.30 | 17.8 | 349.9 |
| C3539 | 8 | 1.50 (7*0.53) | 0.60 | 0.50 | 1.50 | 22.5 | 479.5 |

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Reference Standards

| | |
|----------------|-----------------|
| BS5308 Part 1 | EN 50290-2 |
| IEC 60754-1&-2 | IEC60332-3-24 |
| IEC 61034 | BS EN 60228 |
| BS 7655 | RoHS directives |