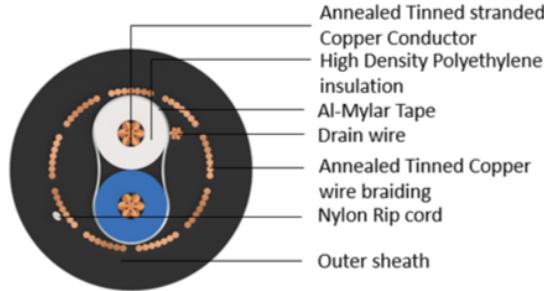


POLY CAB RS-485 UNARMOURED DATA CABLE, 300/500 V AC

POLY CAB
IDEAS. CONNECTED.



Images not to scale. Follow table for dimensions

APPLICATION

POLY CAB RS-485 UNARMOURED, will be used at machine interference for data and signal transmission in the low frequency range. This is suitable to use in control, regulation & measurement and can be used in dry, damp, or wet environment with medium mechanical stress.

OUTSTANDING FEATURES

- Low capacitance
- High level of screening to ensure interference free performance
- High speed data transmission

CHARACTERISTICS

Voltage Rating

300/500 V

Operation Temperature

Operation: -10° to 70°

Installation: 0° to 50°

NOTES

Outer sheath with LSZH available on demand

CONSTRUCTION

- Stranded Annealed Tinned Copper conductor
- Insulated with High Density Polyethylene
- Twisted pairs laid up with suitable lay and wrapped with helically application of non-hygroscopic polyester tape with suitable overlap
- Shielded with Al. Mylar tape with continuity material ATC drain wire
- Screened by Annealed Tinned Copper wire braiding
- Nylon Ripcord
- Sheathed with PVC Type ST1

Core Identification

1 Pair – White-Blue

2 Pair – White-Blue, White-Orange

Bending Radii

12 x Overall Diameter

Packing Length

100 Meter Coil

POLY CAB RS-485 UNARMOURED DATA CABLE, 300/500 V AC

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Dimension Data

| Product code | No. of Pair | Conductor Size | Conductor Size | Overall dia. (Approx.) |
|-----------------------|-------------|----------------|-----------------|---------------------------|
| | | AWG | mm ² | mm |
| ICRS05TPUAYF001P.22SA | 1 | 24 | 0.22 | 6.50 ± 2 |
| ICRS05TPUAYF001P.32SA | 1 | 22 | 0.32 | 7.0 ± 2 |
| ICRS05TPUAYF001P.50SA | 1 | 20 | 0.5 | 7.50 ± 2 |
| ICRS05TPUAYF001P.80SA | 1 | 18 | 0.8 | 8.0 ± 2 |
| ICRS05TPUAYF001P001SA | 1 | 17 | 0.01 | 8.50 ± 2 |
| ICRS05TPUAYF002P.22SA | 2 | 24 | 0.22 | 9.0 ± 2 |
| ICRS05TPUAYF002P.32SA | 2 | 22 | 0.32 | 9.5 ± 2 |
| ICRS05TPUAYF002P.50SA | 2 | 20 | 0.5 | 10.0 ± 2 |
| ICRS05TPUAYF001P.22SA | 2 | 18 | 0.8 | 11.0 ± 2 |
| ICRS05TPUAYF002P001SA | 2 | 17 | 0.01 | 11.50 ± 2 |

Electrical characteristics

| Size | AWG | 24 | 22 | 20 | 18 | 17 |
|-------------------------------------|----------------------|-------|-------|-------|-------|-------|
| Maximum Conductor Resistance @ 20°C | ?/Km | 86 | 60 | 36.7 | 23.5 | 18.5 |
| Capacitance | | | | | | |
| Core to Core | nf/km @ 800/1000 KHz | ≤ 100 | ≤ 100 | ≤ 100 | ≤ 100 | ≤ 100 |
| Core to Shield | nf/km | ≤ 250 | ≤ 250 | ≤ 250 | ≤ 250 | ≤ 250 |
| Characteristics impedance | ? | 120 | 120 | 120 | 120 | 120 |
| Maximum Loop Resistance | ?/Km | 172 | 120 | 73.4 | 47 | 37 |
| Insulation Resistance | Ω/Km | 5 G | 5 G | 5 G | 5 G | 5 G |
| Velocity of Propagation | % | 66 | 66 | 66 | 66 | 66 |
| Dielectric Strength (DC Voltage) | | | | | | |
| Cond to Cond | KV/ 1 Minute | 1 | 1 | 1 | 1 | 1 |
| Cond to shield | KV/ 1 Minute | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |