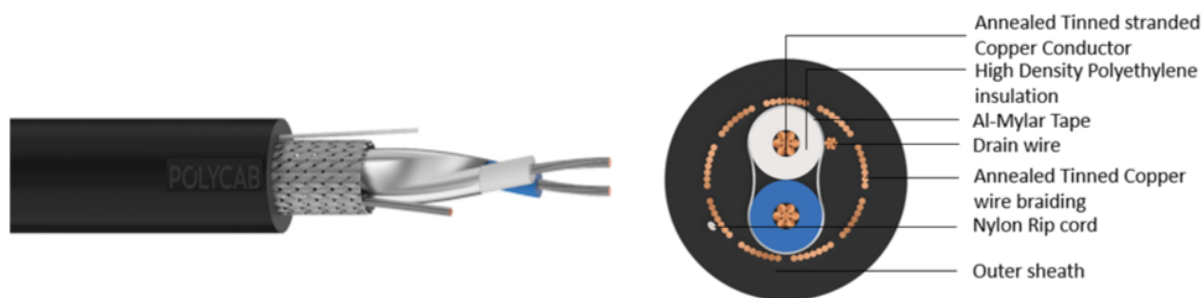


POLYCAB RS-485 UNARMoured DATA CABLE, 300/500 V AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB 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

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Dimension Data

Product code	No. of Pair	Conductor Size		Overall dia. (Approx.) mm
		AWG	mm ²	
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	001	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	001	11.50 ± 2

Electrical characteristics

Size		AWG	24	22	20	18	17
Maximum Conductor Resistance @ 20°C	Ω/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	Ω/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