

# Cables for EIA RS-232 Applications, 24AWG, Overall Screen, PVC Sheath

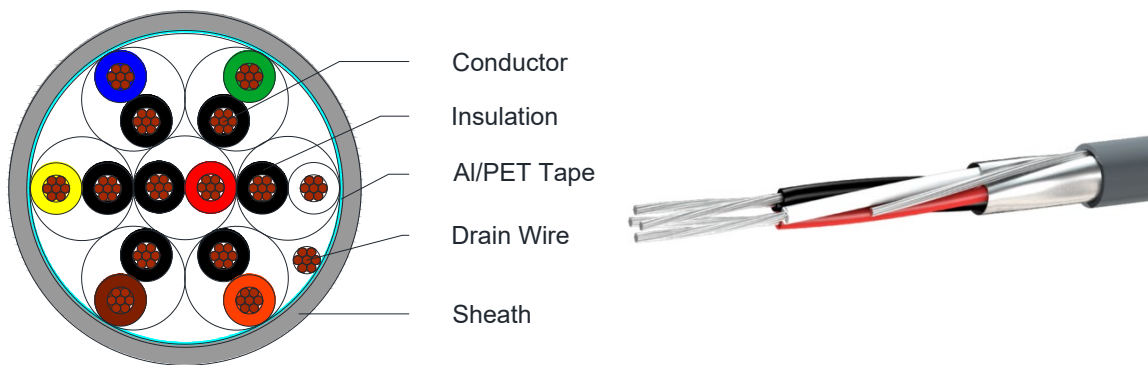


C1181, C1182, C1183, C1184, C1185, C1186, C1187, C1188, C1243

## Applications

Building Management Systems (BMS), Access Control, Instrumentation

## Cross Section Drawing



## Design

Unit	Properties
Conductor	Flexible Tinned Copper wire
Insulation	Polyvinyl Chloride (PVC) Pair 1: Black & Red Pair 2: Black & White Pair 3: Black & Green Pair 4: Black & Blue Pair 5: Black & Yellow Pair 6: Black & Brown Pair 7: Black & Orange Pair 8: Red & White Pair 9: Red & Green Pair 10: Red & Blue
Drain Wire	Tinned Copper wire
Screen	Aluminium/Polyester tape
Sheath Material	Polyvinyl Chloride (PVC) Standard Colour: Grey
Standard Put Up Length	305 metres

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

# Cables for EIA RS-232 Applications, 24AWG, Overall Screen, PVC Sheath



C1181, C1182, C1183, C1184, C1185, C1186, C1187, C1188, C1243

## Physical Characteristics

Part Number	C1181	C1182	C1183	C1184	C1185	C1186	C1187	C1188	C1243
No of pairs	1	2	3	4	5	6	7	8	10
Nom. Conductor Configuration (AWG)	24(7x32)								
Nom. Radial Thickness Insulation (mm)	0.25								
Drain Wire size (AWG)	24(7x32)								
Screen Coverage (%)	115								
Nom. Radial Thickness Sheath (mm)	0.8								
Nom. Overall Diameter (mm)	4.0	5.6	5.9	6.7	7.3	7.4	7.5	8.3	9.3
Operating Temperature (°C)	-25 / +75								
Max. Recommend. Pulling Tension (N)	45	90	135	180	225	270	315	360	489
Min. Bend Radius (install) (mm)	40	56	59	67	73	74	75	83	93
Nominal Cable Weight (kg/km)	18	28	39	48	57	65	73	85	101

## Electrical Characteristics

Part Number	C1181	C1182	C1183	C1184	C1185	C1186	C1187	C1188	C1243
No of pairs	1	2	3	4	5	6	7	8	10
Max. DC Resistance Conductor ( $\Omega$ /km)	88								
Max. DC Resistance Screen ( $\Omega$ /km)	78.4								
Capacitance core to core (pF/m)	120	76	76	80	80	80	80	80	80
Capacitance core to other cores.+screen (pF/m)	270	122	122	130	130	130	130	130	130
Nominal Inductance ( $\mu$ H/m)	0.62	0.62	0.62	0.62	0.62	0.62	0.62	0.5	0.5
Nominal Velocity of Propagation (%)	60								
Max. Recommend. Current @ 25°C (Amps)	1.76	1.76	1.76	1.5	1.5	1.1	1.1	1.1	1.1
Max. Operating Voltage (Vrms)	300								

## Reference Standards

IEC 60332-1	BS)EN 50290
IEC 60228	RoHS directives