

# Cables for EIA RS-232 Applications, 20AWG, Overall Screen, PVC Sheath

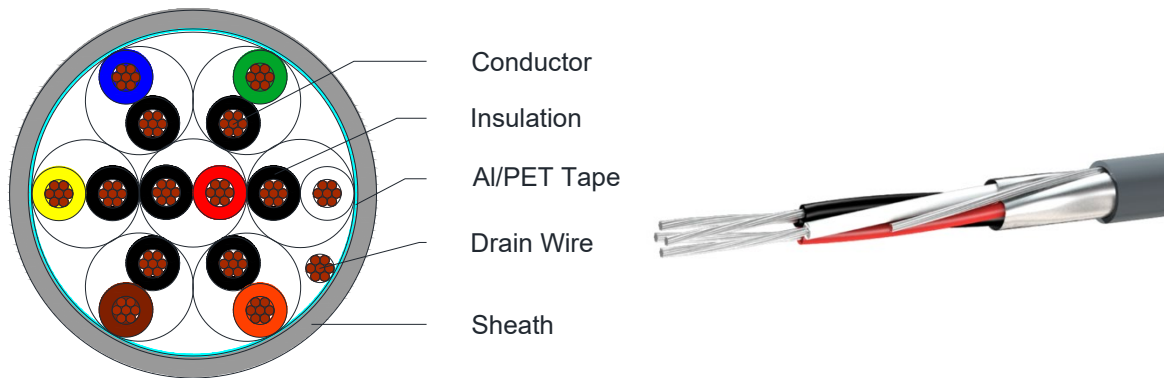


C1682, C1683, C1684, C1685, C1686, C1687, C1688, C1689

## 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
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, 20AWG, Overall Screen, PVC Sheath



## C1682, C1683, C1684, C1685, C1686, C1687, C1688, C1689

### Physical Characteristics

Part Number	C1682	C1683	C1684	C1685	C1686	C1687	C1688	C1689
No of pairs	1	2	3	4	5	6	7	8
Nom. Conductor Configuration (AWG)	20(7x28)							
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)	4.7	6.5	7.3	8.2	8.6	9.1	9.5	10.0
Operating Temperature (°C)	-25 / +75							
Max. Recommend. Pulling Tension (N)	70	140	210	280	350	420	488	558
Min. Bend Radius (install) (mm)	47	65	73	82	86	91	95	100
Nominal Cable Weight (kg/km)	30	53	67	83	98	113	126	142

### Electrical Characteristics

Part Number	C1682	C1683	C1684	C1685	C1686	C1687	C1688	C1689
No of pairs	1	2	3	4	5	6	7	8
Max. DC Resistance Conductor ( $\Omega$ /km)	35.75							
Max. DC Resistance Screen ( $\Omega$ /km)	78.5							
Capacitance core to core (pF/m)	186	92	90	89	88	87	87	87
Capacitance core to other cores.+screen (pF/m)	350	170	170	165	165	165	165	165
Nominal Velocity of Propagation (%)	60							
Max. Recommend. Current @ 25°C (Amps)	4.0	3.2	3.2	2.7	2.7	2.0	2.0	2.0
Max. Operating Voltage (Vrms)	300							

### Reference Standards

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