

# Low Capacitance RS-485 Computer Cables

## 20AWG, Overall Screen, HFFR/LSZH Sheath

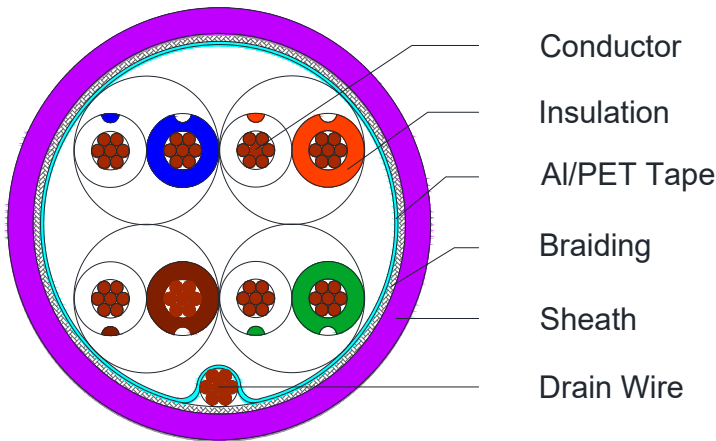


C5833, C5834, C5835, C5836

### Applications

Building Management Systems (BMS), EIA RS-485 Applications

### Cross Section Drawing



### Design

Unit	Properties
Conductor	Tinned Copper wire, flexible
Insulation	Polyethylene (PE) Pair 1: WHITE/Blue + BLUE/White Pair 2: WHITE/Orange + ORANGE/White Pair 3: WHITE/Green + GREEN/White Pair 4: WHITE/Brown + BROWN/White
Cabling	N pairs twisted together
Screen	Aluminium/Polyester 100% Coverage
Drain Wire	Tinned Copper wire
Braiding	Tinned Copper wire
Sheath Material	Halogen-Free, Flame Retardant (HFFR/LSZH) Standard Colour: Purple
Standard Put Up Length	305 or 500 meters

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

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**C5833, C5834, C5835, C5836**

### Physical Characteristics

Part Number	C5833	C5834	C5835	C5836
Number of Pairs	1	2	3	4
Conductor configuration (AWG)	20 (7 x 28)			
Nom. Insulation Diameter (mm)	2.6			
Drain Wire size (AWG)	20 (7 x 28)			
Coverage braid (%)	90			
Nom. Radial Thickness Sheath (mm)	0.8			
Nom. Overall Diameter (mm)	7.2	12.5	13.3	14.7
Operating Temperature (°C)	-25 / +75			
Max. Pulling Tension (N)	350	400	480	500
Min. Bend Radius (install) (mm)	72	125	133	147
Nominal Cable Weight (kg/km)	78	105	128	156

### Electrical Characteristics

Part Number	C5833	C5834	C5835	C5836
Nom. DC Resistance Conductor ( $\Omega$ /km)	35.75			
Nom. DC Resistance Screen ( $\Omega$ /km)	15			
Nominal Impedance ( $\Omega$ )	120			
Capacitance core to core (pF/m)	32	40	43	43
Capacitance core to rest (pF/m)	70	85	87	87
Nom. Attenuation at 1 MHz (dB/100m)	1.68			
Nom. Velocity of Propagation (%)	66			
Max. Recom. Current @ 25°C (Amps)	4.0	3.5	3.0	3.0
Max. Operating Voltage (Vrms)	300			

### Reference Standards

(BS)EN 50290-2
IEC 60228
IEC 60332-3-24, IEC 61034
IEC 60754-1 & 2
UL 1685
RoHS directives