

DRAWN	J5G	TITLE <b>MATL-CABLE, TWISTED, 100 OHMS</b>	DOCUMENT NUMBER	
APPR	CAZ		48-26010	
DATE	10/06/11			
<b>DAIMLER</b>		Daimler Trucks North America	SHEET 1 OF 1	REV LTR A
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### Scope

This Material Specification covers multiconductor, twisted electrical cable having an impedance of 100 Ohms.

### Application

Controller Area Network Bus Wiring.

### Specifications

Conductors	MM <sup>2</sup> (AWG)	Bare Copper Strands (Dia MM)	Cable OD (MM)	Twists Per Meter	Supplier Part Number	DTNA Material Specification
2 Conductor PT CAN CAN H: Lt Blue CAN L: Gray	0.8 (18)	19 (0.0092)	1.78	39.4	14101	48-26010-200
4 Conductor PT CAN CAN H: Lt Blue CAN L: Gray Black White			1.75	14.3-33.3	14071	48-26010-400 <span style="border: 1px solid black; padding: 2px;">14071</span>

### General Requirements

- Approved Supplier(s): Champlain Cable (CHN).
- Impedance: 100 Ohms @ 36 MHz nominal, CAN L – CAN H, White and Black to ground. Conductor resistance (DC) 22.73 milliohms per meter.
- Construction method:  
2 Conductor PT CAN: Unjacketed 2 conductor cable EXTRAD 150UPT insulation with cross-wrap lacing.  
4 Conductor PT CAN: Unjacketed 4 conductor cable EXTRAD 150UPT insulation with insulation filler to maintain wire spacing.
- Temperature rating: -55°C to 150°C.
- Voltage Rating: 60 Volts.
- Meets or exceeds ISO 6722 Class D.
- For Twisted pair 120 ohm cables see 48-25354.
- Flex Radius: 46mm.
- All dimensions are for reference only.
- Delivery must conform exactly to drawing specifications and, where required by QA, with approved QA samples. Absolutely no changes are permitted without prior approval by Daimler Trucks North America, LLC. This includes changes to software, materials, internal components, and manufacturing processes.

REV	RELEASE	DATE	BY	REVISION HISTORY
-	P38962-C4	10/06/11	J5G	INITIAL RELEASE.
A	P38962-11	04/11/12	NIV	UPDATED NOTE 3. REMOVED CROSS-WRAP LACING FROM 4 CONDUCTOR CABLE.