



**Specification for BELDEN 153076F Armored Profibus PA/
Fieldbus Cable Type-A**

I	Description	
1	Part No	153076F
2	Conductor	18AWG (7x26), Tinned Copper.
3	Insulation	Polyolefin
4	No. Of Pairs	1
5	Colour Code	(+) Core: Orange & (-) Core: Blue
6	Screen	Aluminum Beldfoil (100% shield coverage) with stranded tinned copper drain wire of 20AWG (7x28).
7	Inner Jacket	PVC Inner Jacket
8	Armor Type	BELCLAD Corrugated Steel Armor Tape.
9	Outer Jacket Material	PVC
10	Outer Jacket Colour	Orange
II	Electrical Characteristics	
1	Max. Operating Voltage	300V RMS.
2	Max Continuous Current Per Conductor @25 Deg C	5.2 A
3	Nom. Mutual Capacitance @1KHz	25 pF/ft.
4	Nom. Capacitance Conductor to Shield @1kHz	45 pF/ft.
5	Nom. Inductance	0.19 μ H/ft.
6	Impedance @31.25kHz	100 Ω +/- 20%
7	Max. Attenuation @39 kHz	0.914 dB/1000ft.
8	Max. Conductor DC Resistance @ 25 Deg C	7.32 Ω / 1000ft.
9	Max. Propagation Delay Change from 7.812 kHz to 39.06 kHz	518 PS/ft.
10	Max. Capacitance Unbalance *One conductor to other conductor and shield.	1.2 pF/ft.
11	Test Voltage Urms core: core – Max	1500 Volt
12	Test Voltage Urms core: screen – Max	1500 Volt



III	Physical Characteristics	
1	Temperature Rating	-30 Deg C to + 105 Deg C.
2	Insulation Material	Polyolefin.
3	Inner Jacket Material (Color)	PVC (Orange)
4	Type Shield and % Coverage	Aluminium / Polyester, 100%.
5	Twisted Pair Lay Length	2.25" (5.33 Twists / ft).
6	Armor & Outer Jacket	A Steel Corrugated Armor Tape & Overall PVC Jacket is Applied Over The Core.
7	Diameter Over Inner Jacket	0.27" (6.85mm)
8	Diametre. Over Armor	0.34" (8.63mm)
9	Diametre. Over Jacket	0.43" (10.92mm)
10	Min. Bending Radius	5.2" (132.08mm)
11	Max. Pulling Tension	59 lbs. (26Kgs)
12	Color Code	Blue or Orange
13	Agency Approvals	NEC Type CM (UL 444), IEC 61158-2, ROHS Complaint EU CE LV Directive.
14	Flame Resistance	UL 1685 Vertical Tray (70,000 BTU/HR).
15	Description	" 153076F DATABUS(R) 31.25 KB/S 2C16 SHILEDDED (UL) 90C PLTC ROHS"
16	Weight	0.152lbs/ft (0.21kg/m)
	Field bus cable, Type-A, for bus system Field bus Foundation acc. IEC 61158-2, as per NEC Gr C&D standards.	
	Recommended for indoor & outdoor installation, in dry & wet locations, on racks, trays, in conduits. Suitable for direct burial.	

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