

M E S C

Middle East Specialized Cables

PROCESS FIELDBUS (PROFIBUS) DP STANDARD CABLE IEC 61158-2 TYPE A RS 485 300 V 75°C



Application:	Fieldbus cable for Profibus DP and FIP according to IEC 61158 part 2, suitable for 9-pin D-Sub (IP20) and M12 (IP67) connectors. Suitable for indoor, outdoor application in cable tray, conduit for fixed installation.
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CONSTRUCTION:

Conductor	Solid plain copper ,22AWG/ Ø 0.64 mm.
Insulation	Foamed polyethylene.
Pair colour code	Green & Red.
Shielding	0.025 mm aluminium/polyester backed tape in contact with a tinned copper drain wire 22 AWG (7strand) and tinned copper braid.
Inner Jacket	Extruded Violet colour PVC.
Armour	A serving of round galvanized steel wires is applied with 90% minimum coverage.
Outer Jacket	Extruded Violet colour PVC.
Printing Legend	MESC FIELDBUS CABLE IEC 61158-2 RS 485 PROFIBUS DP 1PR 22AWG 300 V 75C SWA SUN RES OIL RES YEAR LENGTH MARKING

TECHNICAL DATA:

Flame retardance	IEC60332-3-24
Halogen acid gas	≤17% (IEC 60754-1)
Limiting Oxygen index (outer sheath)	≥ 29% (ASTM D2843)
UV /Sunlight resistance (outer sheath)	Passes (UL 1581)
Temperature Range	- 5°C to 50°C (During installation) - 30°C to 75°C (During Operation)
Voltage Rating	300 Volts
Conductor Resistance (Loop)	Max. 110 Ω/Km at 20°C
Shield Resistance	Nominal 12 Ω/Km at 20°C
Mutual Capacitance (at 1KHz)	30nF/Km Maximum
Attenuation at 0.25/0.625/1.25/3.125/16 MHz	Nominal 6/9/12/18/40 dB/km
Impedance	150 ±15 Ω
Voltage Test	1500 V for 2 seconds

DIMENSIONAL DETAIL:

Size	MESC Code	Pairs	Strands x Dia.	Inner jacket thickness	Diameter Over Inner Jacket	Armour wire diameter	Diameter Over Armour	Outer Jacket Thick.	Approx. Outer Jacket O.D.	Approx. Weight
AWG		Nos.	No. x mm	mm	mm	mm	mm	mm	mm	kg/km
2 X 22AWG	1863-01P22AWG-W2VT8-30	1	1 X 0.64	0.89	8.1	0.9	9.9	1.27	12.5	310