

PROFIBUS DP^{Type}

Profibus DP cables are suitable for communication between masters and slaves in a Profibus system, cyclical exchange data with all of the slaves assigned to a master, one at a time, according to its list of assigned slaves taken from the master record. Suitable for fast and cyclical exchange data with Master and its Slaves, where the class 1 master uses the bandwidth by realizing asynchronous data exchanges with the Slaves using both confirmed (read inputs, read outputs) and/or not confirmed services (freeze, sync).

CONSTRUCTION

Formation:

Bare copper solid or flexible

Insulation:

Foam polyolefin - FPE

1st overall shield:

overlapped shielding tape aluminium/polyester tape

- Coverage $\geq 100\%$

2nd overall shield:

braid shield tinned copper - Coverage $\geq 65\%$

Outer Sheath:

Polyvinyl Chloride - PVC

Thermoplastic low smoke, Halogen free - LSZH(FRNC)

Colour Outer Sheath:

Violet - PVC

Violet - LSZH(FRNC)

IDENTIFICATION OF CORES

2 Cores: ● ●

ELECTRICAL DATA

Nominal Impedance:	150 \pm 10% ohm
Capacitance:	≤ 30 pF/m
Transmission speed:	Up to 12Mbit/s
Insulation Resistance @ 20°C:	> 25 MOhm*Km
Test Voltage Core-Core:	2000 V
Test Voltage Core-Screen:	2000 V
Operating Voltage:	300 V

Cable with FPE/DoubleSCREEN/PVC

RAMCRO CODE	Copper Class	FORMATION [n° x AWG]	NOM. OUTER DIAMETER [mm]	NOM WEIGHT [kg/km]	MAX RESISTANCE AT 20°C [Ohm/km]	NOM. CAPACITANCE [pF/m]
MRT0122HXA4X-DP	Solid	1x2x22AWG	8	65	55.4	30.0
SDS0107HXA4X-DP	Flexible	1x2x22AWG	8	65	55.4	30.0

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STANDARD REFERENCES

- DIN EN 61784-1
- DIN EN 61158
- NETBUS L2/F.I.P.(Factor, Instrumentation, Protocol)
- PROFIBUS® DP (DIN 19245)
- RS 485
- IEC 60332-1-2 for PVC sheath
- IEC 60754-1&2 for LSZH(FRNC) sheath
- IEC 61034 for LSZH(FRNC) sheath

CHARACTERISTICS

Building Management
Systems Cable



Min. Bending Radius
10 x cable diameter



Put up length 305 mt



TEMPERATURE RANGE

During Operation:

-30° C up to +80° C

During Installation:

-5° C up to +50° C

