

ICON[®] Fieldbus Cable

Profibus FMS/DP



listed as PLTC acc. to UL 13

UL 13

Single Pair, Foam skin PE-Insulation, Overall Screen, PVC-Outer sheath FB-02YS(St+Ce)Y-fl Basic

75°C / 300 V

IEC 61158-2

Application

Fieldbus cable, Type A, for bus-systems Profibus FMS/DP and FIP acc. to IEC 61158-2 (interface RS 485). Suitable for use in hazardous classified locations class I and class II division 2 acc. to NEC 501-4(b) and NEC 502-4(b) or zone 1 and zone 2, group II, acc. to IEC 60079-14, resp.

Recommended for indoor and outdoor installation, in dry and wet locations, on racks, on trays, in conduits.

Construction

Conductor solid plain copper, size: AWG 22/1 (Ø 0.64 mm)

Insulation foamed polyethylene with skin layer

Colour code a-core: green; b-core: red

Screen plastic coated aluminium tape, metallic surface outside in contact

with tinned copper drain wire and tinned copper wire braid

Outer sheath polyvinyl chloride PVC, violet or blue for intrinsically safe systems

Marking...... LEONI KERPEN ICON FIELDBUS CABLE IEC 61158-2 150 Ω

PROFIBUS FMS/DP (UL) PLTC 22/1 AWG 75℃ SUN RES

Temperature range:

-40 °C up to +75 °C

(during operation)

5 °C up to +50 °C

(during installation)

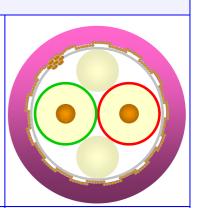
5 x cable diameter

80 N

Min. bending radius:

Max. pulling tension:

PRODUCTION LOT CODE LENGTH MARKING



Technical Data

Flame propagation:

UL 13 vertical tray test

IEC 60332-3-24 (cat. C)

Oxygen index of outer sheath: ASTM D 2863 (min. 30%)

ICEA S-73-532 Oil resistance:

UV resistance: UL 1581 article 1200

Overall diameter: max. 8.4 mm

Weight: approx. 70 kg/km Connectors: M12, 9-pin D-Sub

Glands: M16

76770301 (vio) Part-No.:

76770302 (blue)

Abbreviations

Fieldbus Cable

02YS insulation of foamed PE with skin layer

(St+Ce) overall screen with

drain wire

outer sheath of PVC

-fl reduced flame

propagation

Electrical data at 20 °C

	Character	Unit	Values
Conductor resistance (loop)	max.	Ω/km	110
Screen resistance	nom.	Ω/km	12
Mutual capacitance	max.	nF/km	30
Inductance	nom.	mH/km	0.90
Capacitance unbalance to earth	max.	nF/km	1.5
Impedance ≥ 3 MHz		Ω	150±15
Attenuation at 0.25 / 0.625 / 1.25 / 3.125 / 16 MHz	nom.	dB/km	6/9/12/18/40
Test voltage U _{rms} core : core U _{rms} core : screen		V V	1500 1500
Operating voltage	max.	V	300