



TECHNICAL DATA SHEET

part number cable family

12746 O.R. PMXX-ST® PROFIBUS®

FORMATION: (1x2xAWG22/44)ST/SN

INSTALLATION TYPE: CABLE FOR DYNAMIC INSTALLATION ON DRAG CHAIN

CATEGORY: PROFIBUS®

STANDARD/APPROVAL: UL/CSA

SHIELDING: SHIELDED



GROUP // 1X2X0,34

CONDUCTOR

MATERIAL	Bare copper
CAPILLARY DIAMETER	- Extra-flexible copper
CONDUCTORS NUMBER	2
RATED SECTION	0,34 mm ²

INSULATION

MATERIAL	Foam polyolefin
COLOUR	Green, Red.

TOTAL ASSEMBLY MAKE-UP

INTERMEDIATE TAPING

ON MAKE-UP	Around the total assembly.
MATERIAL	Polyester tape

TOTAL SHIELD

ON MAKE-UP	On the tape.
MATERIAL	Tinned copper
SHIELD SHAPE	Braid shield
COVERAGE	$\geq 85\%$
DRAIN WIRE	Not available

TOTAL SHIELD EXTERNAL

ON MAKE-UP	On the braid shield
MATERIAL	Tinned copper
SHIELD SHAPE	Braid shield
COVERAGE	$\geq 85\%$
DRAIN WIRE	Not available

TOTAL TAPING

ON MAKE-UP	on the braid shield
MATERIAL	Aluminized tape

TOTAL SHEATH

MATERIAL	Polyurethane non-abrasive
COLOUR	Violet RAL 4001 DESINA [®]
DIAMETER (MM)	8 ± 0.35

MARKING

METRIC MARKING	P/N 12746 - TE.CO. E244280 - Fxx - cRUus - AWM STYLE 20236 80°C 30V VW-1 - AWM I/II A/B 80°C 30V FT1 - PROFIBUS - FLEXIBLE CONTROL DATA - BUS - DP - F.I.P. - 150ohm - O.R. PMXX-ST [®] (1x2xAWG22)H2/H - year/week - DESINA [®] meter indication
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INFORMATION NOTES

Non è garantita la tonalità del colore della guaina con cavo esposto ai raggi UV.

ELECTRICAL FEATURES

WORKING VOLTAGE	30 V
TEST VOLTAGE	500 V
RATED CAPACITY	≤ 30 pF/m
RATED IMPEDANCE	$150 \pm 10\%$ ohm
ELECTRICAL RESISTANCE	$\leq 55,4$ ohm/km
INSULATION RESISTANCE	≥ 1 Gohm/km
TRANSMISSION SPEED	Up to 12Mbit/s
ATTENUATION	*** PROFIBUS® DP*** ATTENUATION Frequency[MHz]/Attenuation.std(dB/100m)/Attenuation.t ypical[0,0096/--/0 200/--/0,7 - 16/--/4,9 - 20/--/5,4

DYNAMIC FEATURES

MINIMUM BENDING RADIUS STATIC INSTALLATION	6 times \varnothing cable
MINIMUM BENDING RADIUS DYNAMIC INSTALLATION	7.5 times \varnothing cable
WORKING TEMPERATURE STATIC INSTALLATION	-50°C / +80°C
WORKING TEMPERATURE DYNAMIC INSTALLATION	-40°C / +80°C
TRAVEL SPEED	Up to 200 m/min
ACCELERATION/DECELERATION	Up to 10 m/sec ²
CABLE LENGTH INSIDE CHAIN	Up to 15 m
CHAIN LENGTH NOTES	(horizontal only)
GUARANTEED CYCLES	Up to 5 Mio
NOTES	The given data are meant to be restricted to the type of reference installation. For fixed installation is meant to be without any mechanical stress. For application in dynamic installation with very low temperatures, contact our technical department.

APPROVALS AND STANDARDS

REFERENCE STANDARDS	1581, UL 758(UL); C22.2 n° 210(CSA); DIN EN 61784-1, DIN EN 61158; NETBUS L2/F.I.P. (Factor,Instrumentation,Protocol), PROFIBUS® DP (DIN 19245), RS 485
UL CSA APPROVALS	RU E244280 AWM STYLE 20236 80°C 30V CSA E244280 AWM I/II A/B 80°C 30V
FIRE BEHAVIOUR	FT1(CSA); IEC 60332-1-2(EU) HALOGEN FREE: IEC 60754-1(EU)
INDUSTRIAL OIL RESISTANCE	1581(UL); IEC 60811-404(EU); CEI EN 50363-10-2(EU); IRM 902
HALOGEN FREE	SI
UV RESISTANCE	UV RESISTANT

COMPATIBILITY

WIRING/MANUFACTURER	Siemens / 6XV1830-0JH10
WIRING/MANUFACTURER	Siemens / 6XV1831-2L/J

CUSTOMS CODE

CUSTOMS-TARIFF NUMBER	85444993
MADE IN	IT

REVISION

DATE	30032018
NUMBER	008

TE.CO. reserves the right to make some modifications to the products notwithstanding the basic technical characteristics. Unless otherwise stated, all indicated data are nominal. RAL colour is stated only as reference. TE.CO. Tecnologia Commerciale S.p.A. - Via Achille Grandi, 1 - 40013 Castel Maggiore (Bologna - Italia) - Tel +39 051 6047311 Web: www.tecoit.com - E-mail: sales@tecoit.com - Reg. Impr. Bologna e Codice Fiscale 03163100377 - P.IVA IT 01636081208. Subject to management and coordination activities handled by Pronos S.r.l.. All rights are reserved. The reproduction of any part of this document is not allowed without the written authorization of TE.CO. Tecnologia Commerciale S.p.A..