

part number      cable family

**46403 O.R. FRX® PLUS****FORMATION:** 12G2,50

12GAWG14

**INSTALLATION TYPE:** CABLE FOR DYNAMIC INSTALLATION ON DRAG CHAIN**CATEGORY:** MULTI CORE**STANDARD/APPROVAL:** CE/UL/CSA**SHIELDING:** UNSHIELDED**GROUP // 12G2,50****CONDUCTOR**

MATERIAL	Bare copper
CAPILLARY DIAMETER	- Extra-flexible (DIN VDE 0295, IEC 60228 or CEI 20-29)
CONDUCTORS NUMBER	12
RATED SECTION	2,50 mm <sup>2</sup>

**INSULATION**

MATERIAL	Polyolefin
COLOUR	Black conductors with numbers from 1 to 11 + Green/Yellow.

**TOTAL ASSEMBLY MAKE-UP****TOTAL TAPING**

ON MAKE-UP	Around the total assembly.
MATERIAL	Non-woven tape

**TOTAL SHEATH**

COLOUR	Gray RAL 7001
DIAMETER (MM)	15±0.5

TECO reserves the right to make some modifications to the products not withstanding the basic technical characteristics. Unless otherwise stated, all indicated data are

## MARKING

### METRIC MARKING

P/N \*\*\*\*\* TE.CO. E244280 - Fxx - cRUus -  
AWM STYLE 21179 90°C 1000V VW-1 - AWM  
I/II A/B 90°C 1000V FT1 - nxXAWG - O.R.  
FRX® nGY - IEC 60332-1-2 - year/week - CE  
meter indication

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## ELECTRICAL FEATURES

WORKING VOLTAGE	1000 V
TEST VOLTAGE	4000 V
INSULATION RESISTANCE	>=1 Gohm/Km acc. to EN 50395 prt.8

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## DYNAMIC FEATURES

MINIMUM BENDING RADIUS STATIC INSTALLATION	4 times $\varnothing$ cable
MINIMUM BENDING RADIUS DYNAMIC INSTALLATION	7.5 times $\varnothing$ cable
WORKING TEMPERATURE STATIC INSTALLATION	-40°C / +90°C
WORKING TEMPERATURE DYNAMIC INSTALLATION	-5°C / +90°C
TRAVEL SPEED	Up to 180 m/min
ACCELERATION/DECELERATION	Up to 10 m/sec <sup>2</sup>
CABLE LENGTH INSIDE CHAIN	Up to 20 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.

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## APPROVALS AND STANDARDS

### REFERENCE STANDARDS

1581, UL 758(UL); C22.2 n° 210(CSA);  
Referring to DIN VDE 0207,0285,0819 and  
0295.

UL CSA APPROVALS	RU E244280 AWM STYLE 21179 90°C 1000V CSA E244280 AWM I/II A/B 90°C 1000V
FIRE BEHAVIOUR	VW-1(UL); FT1(CSA); IEC 60332-1-2(EU); DIN VDE 0482-332-1-2; DIN EN 60 332-1-2; UL CABLE FLAME
INDUSTRIAL OIL RESISTANCE	1581(UL); IEC 60811-404(EU); CEI EN 50363- 4-1(EU); VDE 0473-811-404
HALOGEN FREE	NO
UV RESISTANCE	ASTM ASTM-D-2565-16; EN 50289-4-17(EU); ISO 4892-2

### CUSTOMS CODE

CUSTOMS-TARIFF NUMBER	85444999
MADE IN	IT

### REVISION

DATE	25112020
NUMBER	006