



# TECHNICAL DATA SHEET

part number      cable family

## 14084 O.R. FRX®

**FORMATION:** 12G1

12GAWG18

**INSTALLATION TYPE:** CABLE FOR DYNAMIC INSTALLATION ON DRAG CHAIN

**CATEGORY:** MULTI CORE

**STANDARD/APPROVAL:** CE/UL/CSA

**SHIELDING:** UNSHIELDED



### GROUP // 12G1

#### CONDUCTOR

MATERIAL	Bare copper
CAPILLARY DIAMETER	- Extra-flexible (DIN VDE 0295, IEC 60228 or CEI 20-29)
CONDUCTORS NUMBER	12
RATED SECTION	1 mm <sup>2</sup>

#### INSULATION

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

#### TAPING

ON MAKE-UP	On the 3 central conductors
MATERIAL	Non-woven tape

### TOTAL ASSEMBLY MAKE-UP

## TOTAL TAPING

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

## TOTAL SHEATH

MATERIAL	PVC
COLOUR	Matte black RAL 9005
DIAMETER (MM)	10.6±0.35

## MARKING

METRIC MARKING	P/N 14084 TE.CO. E244280 - Fxx - cRUus - AWM STYLE 2464 80°C 300V VW-1 - AWM I/II A/B 80°C 300V FT1 - 12GAWG18 - O.R. FRX® 12G1 - 450/750V - IEC 60332-1-2 - year/week - CE meter indication
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## ELECTRICAL FEATURES

WORKING VOLTAGE	300 V
TEST VOLTAGE	2000 V

## 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 / +80°C
WORKING TEMPERATURE DYNAMIC INSTALLATION	-5°C / +80°C
TRAVEL SPEED	Up to 180 m/min
ACCELERATION/DECELERATION	Up to 10 m/sec <sup>2</sup>
CABLE LENGTH INSIDE CHAIN	Up to 10 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)
UL CSA APPROVALS	RU E244280 AWM STYLE 2464 80°C 300V CSA E244280 AWM I/II A/B 80°C 300V
FIRE BEHAVIOUR	VW-1(UL); FT1(CSA); IEC 60332-1-2(EU)
INDUSTRIAL OIL RESISTANCE	1581(UL); IEC 60811-404(EU); CEI EN 50363-4-1(EU); IRM 902
HALOGEN FREE	NO
UV RESISTANCE	UV RESISTANT

## CUSTOMS CODE

CUSTOMS-TARIFF NUMBER	85444995
MADE IN	IT

## REVISION

DATE	30032018
NUMBER	006

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](http://www.tecoit.com) - E-mail: [sales@tecoit.com](mailto: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..