

part number cable family

46410 O.R. FRX® PLUS

FORMATION: 5G10,00

5GAWG08

INSTALLATION TYPE: CABLE FOR DYNAMIC INSTALLATION ON DRAG CHAIN

CATEGORY: MULTI CORE

STANDARD/APPROVAL: CE/UL/CSA

SHIELDING: UNSHIELDED



GROUP // 5G10,00

CONDUCTOR

MATERIAL	Bare copper
CAPILLARY DIAMETER	- Extra-flexible (DIN VDE 0295, IEC 60228 or CEI 20-29)
CONDUCTORS NUMBER	5
RATED SECTION	10,00

INTERNAL TAPING

ON MAKE-UP	Between conductor and insulation.
MATERIAL	Transparent tape or Non-woven tape

INSULATION

MATERIAL	Polyolefin
COLOUR	Black conductors with numbers from 1 to 4 + 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) 19±0.5

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

ELECTRICAL FEATURES

WORKING VOLTAGE 1000 V

TEST VOLTAGE 4000 V

INSULATION RESISTANCE >1 Gohm/Km acc. to EN 50395 prt.8

DYNAMIC FEATURES

MINIMUM BENDING RADIUS STATIC
INSTALLATION 4 times ø cable

MINIMUM BENDING RADIUS DYNAMIC
INSTALLATION 7.5 times ø 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/sec²

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.

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