

# DYNAMIC APPLICATION

## FRX® PLUS POWER&CONTROL MULTICORE

### APPLICATIVE FEATURES



UP TO 5 MILLION  
GUARANTEED CYCLES



10,0 M/S<sup>2</sup>  
ACCELERATION



20,0 M  
CABLE LENGTH



180,0 M/MIN  
TRAVEL SPEED



MINIMUM BENDING RADIUS

CROSS SECTION	CROSS SECTION MAX	DYNAMIC INSTALLATION	STATIC INSTALLATION
0,50	16,00	7,5xØ	4,0xØ
25.00	50,00	10,0xØ	5,0xØ

### APPROVALS



AWM STYLE 21179  
90°C 1000V



AWM I/II A/B 90°C  
1000V



2014/35/CEE



2011/65/UE



1907/2006

### TECHNICAL DATA



DYNAMIC -5°C +90°C  
STATIC -40°C +90°C  
OCCASIONAL FLEXING -20°C  
+90°C



NOMINAL VOLTAGE 1000 V  
(UL/CSA), UO/U 0,6/1 KV (VDE)



TEST VOLTAGE 4,0 KV  
TEST VOLTAGE REFERENCE EN  
50395 PART 6-7 - UL/1581



INSULATION RESISTANCE >1  
GOHM/KM ACC. TO EN 50395  
PRT.8

### CONSTRUCTION FEATURES

#### POWER CONDUCTORS

#### CONDUCTOR

CL6 EXTRA-FLEXIBLE.  
BARE COPPER.

#### INSULATION

POLYPROPYLENE COMPOUND (PP)

#### INSULATION COLOR

BLACK CORE WITH WHITE PRINTED  
NUMBER + GREEN YELLOW

#### FILLER

FILLER  
POLYPROPYLENE

#### SEPARATION LAYER

TAPE  
NON-WOVEN TAPE

#### OVERALL STRANDING

#### FILLER

FILLER  
POLYPROPYLENE

#### SEPARATION LAYER

TAPE  
NON-WOVEN TAPE

#### SHEATH

PVC COMPOUND.

#### SHEATH COLOUR

GRAY  
, RAL: 7001, DESINA: NO

## PRODUCTS FEATURES

---



### FIRE PERFORMANCE

DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 6033-1-2, UL CABLE FLAME, UL VW-1, CSA FT1



### OIL PERFORMANCE

VDE 0473-811-404, IEC 60811-404 (EU), CEI EN 50363-4-1 (EU), 1581 (UL)



### UV PERFORMANCE

CEI EN 50289-4-17, ISO 4892-2, ASTM-D-2565-16



### WATER PERFORMANCE

UL 1581, IEC 60811



### HYDROCARBONS PERFORMANCE

UL 1581

TECO CODE	FORMATION	CUT	ROLLS [M]	DRUMS [M]	EXT Ø [MM]	WEIGHT [KG/KM]	INS. COLOUR EXC
46439	<b>2X0,50</b> 2XAWG21	✗	100	500	5.2	40	BLACK CORE WITH WHITE PRINTED NUMBERS.
46378	<b>2X1,00</b> 2XAWG18	✗	100	500	6	55	BLACK CORE WITH WHITE PRINTED NUMBERS.
46346	<b>3G0,50</b> 3GAWG21	✓	100	500	5.5	58	
46373	<b>3G0,75</b> 3GAWG19	✗	100	500	6.2	60	
46440	<b>3G1,00</b> 3GAWG18	✗	100		6.3	65	
46391	<b>3G1,50</b> 3GAWG16	✓	100	500	7.2	85	
46399	<b>3G2,50</b> 3GAWG14	✓	100	500	8.4	140	
46405	<b>3G4,00</b> 3GAWG12	✓		500	10.2	220	
46347	<b>4G0,50</b> 4GAWG21	✓	100	500	6.2	60	
46372	<b>4X0,50</b> 4XAWG21	✗	100	500	6.2	60	BLACK CORE WITH WHITE PRINTED NUMBERS.
46382	<b>4G1,00</b> 4GAWG18	✓	100	500	6.8	85	
46398	<b>4G1,50</b> 4GAWG16	✓	100	500	7.8	110	
46400	<b>4G2,50</b> 4GAWG14	✓		500	9.2	180	
46406	<b>4G4,00</b> 4GAWG12	✓		500	11.2	250	
46407	<b>4G6,00</b> 4GAWG10	✓			13.4	360	
46409	<b>4G10,00</b> 4GAWG08	✓			17	610	
46411	<b>4G16,00</b> 4GAWG06	✓			22	980	
46374	<b>5G0,75</b> 5GAWG19	✓	100	500	7.3	85	
46383	<b>5G1,00</b> 5GAWG18	✓	100	500	7.7	95	
46392	<b>5G1,50</b> 5GAWG16	✓	100		8.6	140	
46401	<b>5G2,50</b> 5GAWG14	✓		500	10.6	220	
46408	<b>5G6,00</b> 5GAWG10	✓			15	450	
46410	<b>5G10,00</b> 5GAWG08	✓			19	870	
46348	<b>7G0,50</b> 7GAWG21	✓	100	500	7.6	85	
46375	<b>7G0,75</b> 7GAWG19	✓	100	500	8.6	125	
46384	<b>7G1,00</b> 7GAWG18	✓	100	500	9.2	150	
46393	<b>7G1,50</b> 7GAWG16	✓		500	10	215	
46402	<b>7G2,50</b> 7GAWG14	✓		500	12.4	290	
46349	<b>12G0,50</b> 12GAWG21	✓		500	9.6	130	
46376	<b>12G0,75</b> 12GAWG19	✓		500	10.2	180	
46385	<b>12G1,00</b> 12GAWG18	✓		500	10.8	200	

TECO CODE	FORMATION	CUT	ROLLS [M]	DRUMS [M]	EXT Ø [MM]	WEIGHT [KG/KM]	INS. COLOUR EXC
46386	<b>12X1,00</b> 12XAWG18	✓		500	10.8	200	BLACK CORE WITH WHITE PRINTED NUMBERS.
46394	<b>12G1,50</b> 12GAWG16	✓		500	12.4	290	
46403	<b>12G2,50</b> 12GAWG14	✓			15	450	
46350	<b>18G0,50</b> 18GAWG21	✓		500	10.8	190	
46377	<b>18G0,75</b> 18GAWG19	✓		500	11.9	245	
46387	<b>18G1,00</b> 18GAWG18	✓		500/100	12.9	260	
46395	<b>18G1,50</b> 18GAWG16	✓			15.4	415	
46351	<b>25G0,50</b> 25GAWG21	✓		500/100	13.2	280	
46388	<b>25G1,00</b> 25XAWG18	✓		500	15.2	460	
46396	<b>25G1,50</b> 25GAWG16	✓			19	590	
46404	<b>25G2,50</b> 25GAWG14	✓			22	900	
46352	<b>33G0,50</b> 33GAWG21	✓			14.2	320	
46389	<b>34G1,00</b> 34GAWG18	✓			17.5	540	
46390	<b>50G1,00</b> 50GAWG18	✓			21.2	880	

TE.CO. reserves the right to make changes to any of the products without, however, affecting the essential technical features. Unless specified otherwise, all the product ratings stated are nominal ratings. The RAL colour code is provided for illustrative purposes only.  
Company managed and coordinated by Fangen S.r.l.. All rights reserved. No reproduction permitted without written permission from TE.CO. Tecnologia Commerciale S.p.A.