

# DYNAMIC APPLICATION

## FRX® PLUS SERVO WITH PAIR

### 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	95.00	10.0xØ	5.0xØ

### APPROVALS



AWM STYLE 21179  
90°C 1000V



AWM I/II A/B 90°C  
1000V



2014/35/CEE



2014/30/EU



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  $\geq 1$   
GOHM/KM(20°C),  $\geq 10$   
MOHM/KM(90°C)

## CONSTRUCTION FEATURES

POWER CONDUCTORS	CONDUCTOR	CL6 EXTRA-FLEXIBLE. BARE COPPER.
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	BLACK CORE WITH WHITE PRINTING ( U/L1/C/L+, V/L2, W/L3/D/L-) + GREEN-YELLOW.
CONTROL PAIR SCREENED (ONE PAIR)	CONDUCTOR	CL6 EXTRA-FLEXIBLE. BARE COPPER.
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	BLACK CORE AND WHITE CORE.
	FILLER	FILLER (OPTIONAL) POLYPROPYLENE
	SEPARATIONLAYER	INNER TAPE NON-WOVEN TAPE
	SCREEN	INNER SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATIONLAYER	INNER TAPE NON-WOVEN TAPE
CONTROL PAIR SCREENED (TWO PAIR)	CONDUCTOR	CL6 EXTRA-FLEXIBLE. BARE COPPER.
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	BLACK CORE WITH WHITE PRINTED NUMBERS.
	FILLER	FILLER (OPTIONAL) POLYPROPYLENE
	SEPARATIONLAYER	TAPE SHIELD MYLAR INSIDE - ALLUMINIUM OUTSIDE
	DRAINWIRE	DRAIN WIRE TINNED COPPER
	SCREEN	INNER SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATIONLAYER	INNER TAPE NON-WOVEN TAPE
OVERALL STRANDING ONE PAIR	FILLER	FILLER POLYPROPYLENE
	SEPARATIONLAYER	TAPE NON-WOVEN TAPE
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATIONLAYER	TAPE NON-WOVEN TAPE
	SHEATH	PVC COMPOUND.
	SHEATH COLOUR	ORANGE , RAL: 2003, DESINA: YES

## CONSTRUCTION FEATURES

OVERALL STRANDING TWO PAIR

FILLER

FILLER  
POLYPROPYLENE

SEPARATIONLAYER

TAPE  
NON-WOVEN TAPE

SCREEN

SCREEN  
TINNED COPPER  
85 % ± 5 %

SEPARATIONLAYER

TAPE  
NON-WOVEN TAPE

SHEATH

PVC COMPOUND.

SHEATH COLOUR

ORANGE  
, RAL: 2003, DESINA: YES

## PRODUCTS FEATURES



### FIRE PERFORMANCE

DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2, UL 1581 SEC.1061 CABLE FLAME, UL VW-1, CSA FT1.



### OIL PERFORMANCE

VDE 0207-363-4-1, IEC 60811-404 (EU), CEI EN 50363-4-1, 1581 (UL)



### UV PERFORMANCE

ACCORDING TO ISO 4892-2, EN 50289-4-17, ASTM-D-2565-16, EN 50618



### WATER PERFORMANCE

UL 1581 - IEC 60811, EN 50396 (HYDROLYSES RESISTANCE)

TECO CODE	OEM REF.	FORMATION	CUT	ROLLS [M]	DRUMS [M]	EXT Ø [MM]	WEIGHT [KG/KM]
46327		[4G0,75+(2X0,50)ST]ST [4GAWG19+(2XAWG21)ST]ST	✓	100	500	9.2	140
46328		[4G1,50+(2X1,00)ST]ST [4GAWG16+(2XAWG18)ST]ST	✓		500	10.8	200
46329	SIEMENS 6FX5008-1BA11	[4G1,50+(2X1,50)ST]ST [4GAWG16+(2XAWG16)ST]ST	✓		500	11.4	240
46341	INDRAMAT INK 650	[4G1,50+2X(2X0,75)ST]ST [4GAWG16+2X(2XAWG19)ST]ST	✓		500	12	235
46330		[4G2,50+(2X1,00)ST]ST [4GAWG14+(2XAWG18)ST]ST	✓		500	12.4	290
46331	SIEMENS 6FX5008-1BA21	[4G2,50+(2X1,50)ST]ST [4GAWG14+(2XAWG16)ST]ST	✓			13.2	310
46342	INDRAMAT INK 602	[4G2,50+2X(2X1,00)ST]ST [4GAWG14+2X(2XAWG18)ST]ST	✓			14.5	320
46332		[4G4,00+(2X1,00)ST]ST [4GAWG12+(2XAWG18)ST]ST	✓			13.8	380
46333	SIEMENS 6FX5008-1BA31	[4G4,00+(2X1,50)ST]ST [4GAWG12+(2XAWG16)ST]ST	✓			14.6	410
46343	INDRAMAT INK 603	[4G4,00+(2X1,00)ST+(2X1,50)ST]ST [4XAWG12+(2XAWG18)ST+(2XAWG16)ST]ST	✓			16.2	430
46334	SIEMENS 6FX5008-1BA41	[4G6,00+(2X1,50)ST]ST [4GAWG08+(2XAWG16)ST]ST	✓			16.6	510
46344	INDRAMAT INK 604	[4G6,00+(2X1,00)ST+(2X1,50)ST]ST [4XAWG10+(2XAWG18)ST+(2XAWG16)ST]ST	✓			18.2	570
46335	SIEMENS 6FX5008-1BA51	[4G10,00+(2X1,50)ST]ST [4GAWG08+(2XAWG16)ST]ST	✓			20.8	770
46345	INDRAMAT INK 605	[4G10,00+(2X1,00)ST+(2X1,50)ST]ST [4GAWG08+(2XAWG18)ST+(2XAWG16)ST]ST	✓			22.4	889
46336	SIEMENS 6FX5008-1BA61	[4G16,00+(2X1,50)ST]ST [4GAWG06+(2XAWG16)ST]ST	✓			23.4	1150
46337	SIEMENS 6FX5008-1BA25	[4G25,00+(2X1,50)ST]ST [4GAWG04+(2XAWG16)ST]ST	✓			27	1600
46338	SIEMENS 6FX5008-1BA35	[4G35,00+(2X1,50)ST]ST [4GAWG02+(2XAWG16)ST]ST	✓			31.2	1950

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.

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