

DYNAMIC APPLICATION

FRX® PLUS POWER&CONTROL MULTICORE-ST

APPLICATIVE FEATURES



UP TO 5 MILLION
GUARANTEED CYCLES



10,0 M/S²
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



2014/30/EU



2011/65/UE
2015/863/UE

TECHNICAL DATA



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



NOMINAL VOLTAGE 1000 V
(UL/CSA), U₀/U₁ 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
PART.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
	SEPARATIONLAYER	INNER TAPE POLYESTER TRANSPARENT TAPE OR NON-WOVEN TAPE
OVERALL STRANDING	FILLER	FILLER POLYPROPYLENE
	SEPARATIONLAYER	TAPE NON-WOVEN TAPE
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATIONLAYER	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

ACCORDING TO 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
46414	(2X0,75)ST (2XAWG19)ST	✗	100	500	6.2	60	BLACK CORE WITH WHITE PRINTED NUMBERS.
46420	(2X1,00)ST (2XAWG18)ST	✓	100/200	500	6.4	65	BLACK CORE WITH WHITE PRINTED NUMBERS.
46421	(3G1,00)ST (3XAWG18)ST	✓	100	500	6.8	78	
46412	(4G0,50)ST (4XAWG21)ST	✗			6.4	65	
46422	(4G1,00)ST (4XAWG18)ST	✓	100	500	7.5	95	
46430	(4G1,50)ST (4XAWG16)ST	✓	100	500	8.5	130	
46435	(4G2,50)ST (4GAWG14)ST	✓		500	10.3	180	
46416	(5G0,75)ST (5XAWG19)ST	✓	100	500	7.7	95	
46424	(5G1,00)ST (5GAWG18)ST	✓	100	500	8.4	110	
46431	(5G1,50)ST (5GAWG16)ST	✓	100	500	9	160	
46417	(7G0,75)ST (7XAWG19)ST	✓	100	500	9.2	115	
46425	(7G1,00)ST (7XAWG18)ST	✓		500	9.4	140	
46432	(7G1,50)ST (7GAWG16)ST	✓		500	11	230	
46437	(7G2,50)ST (7XAWG14)ST	✓			13.5	395	
46426	(10G1,00)ST (10XAWG18)ST	✓		500	11.3	250	
46413	(12X0,50)ST (12XAWG21)ST	✓	100	500	9.8	135	BLACK CORE WITH WHITE PRINTED NUMBERS.
46418	(12G0,75)ST (18XAWG19)ST	✓		500	11	175	
46427	(12G1,00)ST (12XAWG18)ST	✓		500	11.8	270	
46433	(12G1,50)ST (12XAWG16)ST	✓			12.9	340	
46438	(12G2,50)ST (12XAWG14)ST	✓			16	500	
46419	(18G0,75)ST (18XAWG19)ST	✓		500	12.8	235	
46428	(18G1,00)ST (18XAWG18)ST	✓			13.5	330	
46434	(18G1,50)ST (18XAWG16)ST	✓			16.2	475	
46429	(25G1,00)ST (25XAWG18)ST	✓			16	470	

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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