

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



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)
U₀/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
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
SEPARATION LAYER	INNER TAPE POLYESTER TRANSPARENT TAPE OR NON-WOVEN TAPE

OVERALL STRANDING

FILLER	FILLER POLYPROPYLENE
SEPARATION LAYER	TAPE NON-WOVEN TAPE
SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
SEPARATION LAYER	TAPE NON-WOVEN TAPE

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	✗	100	500	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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