

DYNAMIC APPLICATION

FRX[®] PLUS MULTICORE SHIELDED (SH)



APPLICATIVE FEATURES



**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 MIN (MM ²)	CROSS SECTION MAX (MM ²)	DYNAMIC INSTALLATION	STATIC INSTALLATION
0.50	16.00	7.5xØ	4.0xØ
25.00	50.00	10.0xØ	5.0xØ

DESCRIPTION

UL/CSA certified flexible multicore cables designed for dynamic application in drag chains, also suitable for permanently flexible applications that allow free movement without tensile stress and without motion control in dry, damp, and wet environments. This family satisfies the requirements of the most commonly used cables in tool power supply and in generic industrial wiring harnesses. Reduced diameter and optimized minimum bending radius thanks to the low-capacity material. Suitable for indoor and outdoor use as well. Screening from electromagnetic interferences thanks to the dense braid shield.

APPROVALS



**AWM STYLE 21179 90°C
1000V
File E244280**



**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 50395-6-7
UL 1581



INSULATION RESISTANCE
≥ 1 GOHM/KM

CONSTRUCTION FEATURES

POWER CONDUCTORS	CONDUCTOR	CL6 EXTRA-FLEXIBLE. BARE COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	BLACK CORES WITH PRINTED NUMBERS WITH [G] OR WITHOUT [X] GREEN-YELLOW
	SEPARATION LAYER	INNER TAPE POLYESTER TRANSPARENT 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
	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
VW-1 (UL)
FT1 (CSA)



OIL PERFORMANCE

VDE 0473-811-404
IEC 60811-404
CEI EN 50363-4-1
UL 1581



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	N° CORES X CROSS-SECTION	CUT	ROLLS (M)	DRUMS (M)	EXT Ø (MM)	WEIGHT (KG/KM)
46414	(2X0,75)ST (2XAWG19)ST	X	100	500	6.2	60
46420	(2X1,00)ST (2XAWG18)ST	✓	100/200	500	6.4	65
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	✓	100	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	✓		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	✓		500	13.5	395
46426	(10G1,00)ST (10XAWG18)ST	✓		500	11.3	250
46413	(12X0,50)ST (12XAWG21)ST	✓	100	500	9.8	135
46418	(12G0,75)ST (12XAWG19)ST	✓		500	11	175

TECO CODE	N° CORES X CROSS-SECTION	CUT	ROLLS (M)	DRUMS (M)	EXT Ø (MM)	WEIGHT (KG/KM)
46427	(12G1,00)ST (12XAWG18)ST	✓		500	11.8	270
46433	(12G1,50)ST (12XAWG16)ST	✓		500	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	✓		500	13.5	330
46434	(18G1,50)ST (18XAWG16)ST	✓			16.2	475
46429	(25G1,00)ST (25XAWG18)ST	✓			16	470

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