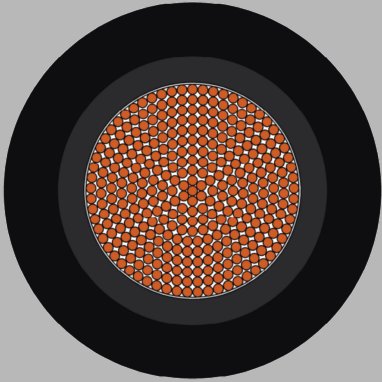


DYNAMIC APPLICATION

FRX[®] PLUS SINGLE CORE



APPLICATIVE FEATURES



**UP TO 5 MILLION
GUARANTEED CYCLES**



**10,0 M/S²
ACCELERATION**



**15,0 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 |
|---|---|-------------------------|------------------------|
| 4.00 | 16.00 | 7.5xØ | 4.0xØ |
| 25.00 | 240.00 | 10.0xØ | 6.0xØ |

DESCRIPTION

UL/CSA certified flexible single-core power and control cables, designed for dynamic drag chains and automatic machinery applications with free movement without tensile stress or forced movements in dry or moist environments. Suitable for indoor and outdoor use. This type of cable can be a smart alternative to multicore power cables in case space or minimum bending radius requirements are challenging.

APPROVALS



**AWM STYLE 10678
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**



**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**

CONSTRUCTION FEATURES

| | | |
|-------------------|------------------|--|
| POWER CONDUCTORS | CONDUCTOR | CL6 EXTRA-FLEXIBLE. BARE COPPER. |
| | INSULATION | POLYPROPYLENE COMPOUND (PP) |
| | INSULATION COLOR | BLACK RAL 9005 OR GREEN-YELLOW |
| | SEPARATION LAYER | INNER TAPE POLYESTER TRANSPARENT OR NON-WOVEN TAPE |
| OVERALL STRANDING | SHEATH | PVC COMPOUND. |
| | SHEATH COLOUR | MATTE BLACK, RAL: 9005, 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 | N° CORES X CROSS-SECTION | CUT | ROLLS (M) | DRUMS (M) | EXT Ø (MM) | WEIGHT (KG/KM) |
|-----------|-----------------------------|-----|-----------|-----------|------------|----------------|
| 46441 | 1G4,00 1GAWG12 | ✓ | 100 | 500 | 5.7 | 70 |
| 46450 | 1X6,00 1XAWG10 | ✗ | 100 | 500 | 6.6 | 98 |
| 46442 | 1G6,00 1GAWG10 | ✗ | 100 | 500 | 6.6 | 98 |
| 46451 | 1X10,00 1XAWG08 | ✓ | | 500 | 7.9 | 170 |
| 46443 | 1G10,00 1GAWG08 | ✓ | | 500 | 7.9 | 170 |
| 46452 | 1X16,00 1XAWG6 | ✓ | | 500 | 9.2 | 240 |
| 46444 | 1G16,00 1GAWG06 | ✓ | 100 | 500 | 9.2 | 240 |
| 46453 | 1X25,00 1XAWG04 | ✓ | | 500 | 11 | 300 |
| 46445 | 1G25,00 1GAWG04 | ✓ | | | 11 | 300 |
| 46454 | 1X35,00 1XAWG02 | ✓ | | | 13 | 410 |
| 46446 | 1G35,00 1GAWG02 | ✓ | | | 13 | 410 |
| 46455 | 1X50,00 1XAWG01 | ✓ | | | 15 | 620 |
| 46447 | 1G50,00 1GAWG01 | ✓ | | | 15 | 620 |
| 46456 | 1X70,00 1XAWG2/0 | ✓ | | | 17 | 790 |
| 46448 | 1G70,00 1GAWG2/0 | ✓ | | | 17 | 790 |
| 46457 | 1X95,00 1XAWG3/0 | ✓ | | | 19.2 | 1150 |
| 46458 | 1X120,00 1XAWG4/0 | ✓ | | | 21.2 | 1495 |

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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