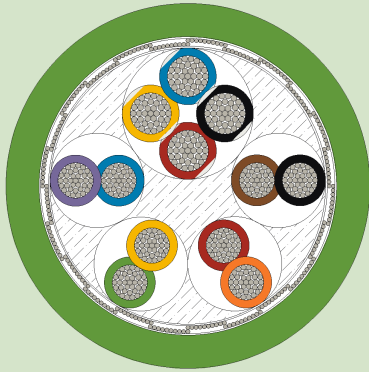


DYNAMIC APPLICATION

FRX[®] PLUS ENCODER



APPLICATIVE FEATURES



**5 MILLION
GUARANTEED CYCLES**



**10,0 M/S²
ACCELERATION**



**20,0 M
CABLE LENGTH**



**180,00 M/MIN
TRAVEL SPEED**



MINIMUM BENDING RADIUS

CROSS SECTION
MIN (MM²)

CROSS SECTION
MAX (MM²)

DYNAMIC
INSTALLATION

STATIC
INSTALLATION

0.14

1.00

7.5xØ

6.0xØ

DESCRIPTION

UL/CSA certified flexible cables for data transmission of encoder and resolver devices, designed for dynamic application in drag chains. They are also suitable for permanently flexible applications that allow free movement without tensile stress and without motion control in dry, damp, and wet environments. Suitable for indoor and outdoor use. Interference is suppressed thanks to the shields.

APPROVALS



AWM STYLE 20042
90°C 300V

E244280



AWM I/II A/B 90°C
300V



2014/35/CEE



2014/30/EU



2011/65/UE



1907/2006

TECHNICAL DATA



DYNAMIC
-5 °C +90 °C
STATIC
-40 °C +90 °C



NOMINAL VOLTAGE
300 V (UL/CSA)



TEST VOLTAGE
(C/C)
2000 VRMS / 1 MIN (C/S)
2000 VRMS / 1 MIN



INSULATION RESISTANCE
≥ 1 GOHM/KM

PRODUCTS FEATURES



FIRE PERFORMANCE
DIN VDE 0482-332-1-2
DIN EN 60332-1-2
IEC 60332-1-2
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

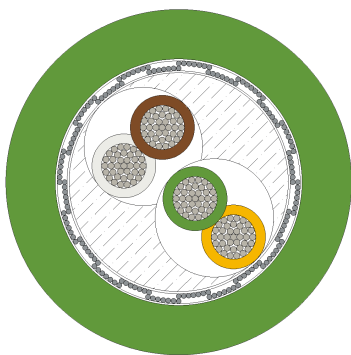


HYDROCARBONS PERFORMANCE
UL 1581

TECO CODE	OEM REF.	N° CORES X CROSS-SECTION	CUT	ROLLS (M)	DRUMS (M)	EXT Ø (MM)	WEIGHT (KG/KM)
46626		(2X2X0,34)ST (2X2XAWG22)ST	✓	100	500	7	66
58387		(2X2X0,34)ST (2X2XAWG22)ST	✓	100/200	500	7	66
46627		[(2X0,34)CCSN+6X2X0,34+2X1,00]ST [(2XAWG22)CCSN+6X2XAWG22+2XAWG18]ST	✓			11	180
46628		(3X2X0,14+2X0,34)SNCC/ST (3X2XAWG26+2XAWG22)SNCC/ST	✓		500	7	60
46629	HEIDENHAIN	[3X(2X0,14)CCSF-RPE+2X(0,5)SF-RPE]ST [3X(2XAWG26)CCSF/RPE+2X(AWG21)SF/RPE]ST	✓	100	500	8.9	110
46630	SIEMENS 6FX5008- 1BD51	[3X(2X0,14)CCSF-R+4X0,14+4X0,25+2X0,50]ST [3X(2XAWG26)CC/SF+4XAWG26+4XAWG24+2XAWG21]ST	✓		500	9.8	142
46631		(3X2X0,34+2X0,50)CCST (3X2XAWG22+2XAWG21)CCST	✓	100	500	8.6	99
46632		(4X2X0,25)CC/ST (4X2XAWG24)CC/ST	✓	100	500	7.5	85
46633		[4X(2X0,25)ST]ST [4X(2XAWG24)ST]ST	✓		500	9.2	111
46634	INDRAMAT	(4X2X0,25+2X0,50)CC/ST (4X2XAWG24+2XAWG21)CC/ST	✓	100	500	8.5	107
46635	SIEMENS 6FX5008- 1BD21	(4X2X0,34+4X0,50)ST (4X2XAWG22+4XAWG21)ST	✓	100	500	8.9	130

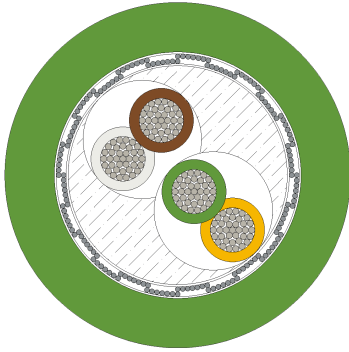
TECO CODE 46626 CONSTRUCTION FEATURES

GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD
OVERALL STRANDING	FILLER	FILLER POLYPROPYLENE
	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE
	SHEATH	PVC COMPOUND.
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES
EXCEPTIONS	INS. COLOUR EXC	GROUP 1 2X2X0,34 : WH-BN, GN-YE



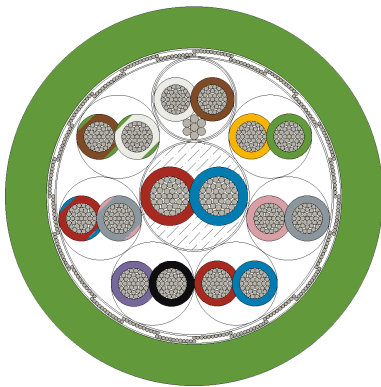
TECO CODE 58387 CONSTRUCTION FEATURES

GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD
OVERALL STRANDING	FILLER	FILLER POLYPROPYLENE
	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE
	SHEATH	PVC COMPOUND.
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES
	EXCEPTIONS	INS. COLOUR EXC



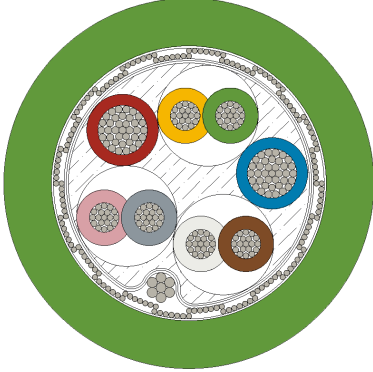
TECO CODE 46627 CONSTRUCTION FEATURES

GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD	
	DRAIN WIRE	DRAIN WIRE TINNED COPPER	
	SEPARATION LAYER	TAPE SCREEN ALLUMINIUM INSIDE - POLYESTER OUTSIDE	
	SEPARATION LAYER	TAPE POLYESTER TRANSPARENT.	
GROUP 2	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD	
GROUP 3	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	INSULATION COLOR	VARIOUS COLOURS	
OVERALL STRANDING	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE	
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %	
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE	
	SHEATH	PVC COMPOUND.	
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES	
	EXCEPTIONS	INS. COLOUR EXC	GROUP 1 2X0,34 : WH-BN GROUP 2 6X2X0,34 : GN-YE, GY-PK, BU-RD, BK-VT, GY/PK*-RD/BU*, WH/GN*- BN/GN* GROUP 3 2X1,00 : RD-BU *RING BICOLOUR



TECO CODE 46628 CONSTRUCTION FEATURES

GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD	
GROUP 2	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD	
OVERALL STRANDING	FILLER	FILLER POLYPROPYLENE	
	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE	
	SEPARATION LAYER	TAPE SCREEN ALLUMINIUM INSIDE - POLYESTER OUTSIDE	
	DRAIN WIRE	DRAIN WIRE TINNED COPPER	
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %	
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE	
	SHEATH	PVC COMPOUND.	
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES	
	EXCEPTIONS	INS. COLOUR EXC	GROUP 1 3X2X0,14 : WH-BN, GN-YE, GY-PK GROUP 2 2X0,34 : BU-RD



TECO CODE 46629 CONSTRUCTION FEATURES

GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD	
	DRAIN WIRE	DRAIN WIRE TINNED COPPER	
	SCREEN	SCREEN TINNED COPPER 90 % ± 5 %	
	SEPARATION LAYER	TAPE POLYESTER TRANSPARENT.	
GROUP 2	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	SCREEN	SCREEN TINNED COPPER 90 % ± 5 %	
	SEPARATION LAYER	TAPE POLYESTER TRANSPARENT.	
OVERALL STRANDING	SHEATH	INNER JACKET POLYOLEFIN COMPOUND.	
	FILLER	FILLER POLYPROPYLENE COMPOUND (PP)	
	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE	
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %	
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE	
	SHEATH	PVC COMPOUND.	
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES	
	EXCEPTIONS	INS. COLOUR EXC	GROUP 1 3X(2X0,14) : YE-GN, RD-BU, GY-PK GROUP 2 2X(0,50) : WH, BN

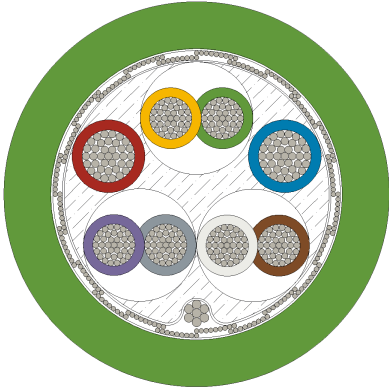


GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	VARIOUS COLOURS
	DRAIN WIRE	DRAIN WIRE TINNED COPPER
	SCREEN	SCREEN TINNED COPPER 90 % ± 5 %
	SEPARATION LAYER	TAPE POLYESTER TRANSPARENT.
	SHEATH	INNER JACKET POLYOLEFIN COMPOUND.
GROUP 2	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	VARIOUS COLOURS
GROUP 3	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	VARIOUS COLOURS
GROUP 4	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
OVERALL STRANDING	FILLER	FILLER POLYPROPYLENE
	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE
	SHEATH	PVC COMPOUND.
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES
	EXCEPTIONS	INS. COLOUR EXC

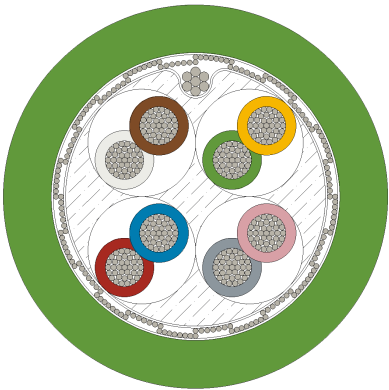


TECO CODE 46631 CONSTRUCTION FEATURES

GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD	
GROUP 2	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER	
	INSULATION	POLYPROPYLENE COMPOUND (PP)	
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD	
OVERALL STRANDING	FILLER	FILLER POLYPROPYLENE COMPOUND (PP)	
	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE	
	DRAIN WIRE	DRAIN WIRE TINNED COPPER	
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %	
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE	
	SHEATH	PVC COMPOUND.	
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES	
	EXCEPTIONS	INS. COLOUR EXC	GROUP 1 3X2X0,34 : WH-BN, GY-PK, GN-YE GROUP 2 2X0,50 : RD-BU

**TECO CODE 46632 CONSTRUCTION FEATURES**

GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	COLOURS SEQUENCE REFERS TO DIN 47100 STANDARD
OVERALL STRANDING	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE
	DRAIN WIRE	DRAIN WIRE TINNED COPPER
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE
	SHEATH	PVC COMPOUND.
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES
	EXCEPTIONS	INS. COLOUR EXC

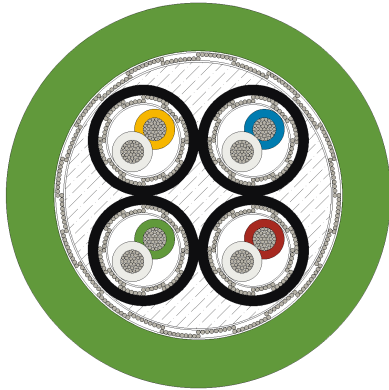


TECO CODE 46633 CONSTRUCTION FEATURES

GROUP 1

CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
INSULATION	POLYPROPYLENE COMPOUND (PP)
INSULATION COLOR	VARIOUS COLOURS
SEPARATION LAYER	TAPE POLYESTER TRANSPARENT.
SCREEN	PAIRS SCREEN TINNED COPPER 85 % ± 5 %
SHEATH	INNER JACKET POLYOLEFIN COMPOUND.

OVERALL STRANDING



FILLER	FILLER POLYPROPYLENE
SEPARATION LAYER	WRAPPING NON-WOVEN TAPE
SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE
SHEATH	PVC COMPOUND.
SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES

EXCEPTIONS

INS. COLOUR EXC	GROUP 1 4X(2X0,25) : WH-YE, WH-BU, WH-RD, WH-GN
-----------------	---

TECO CODE 46634 CONSTRUCTION FEATURES

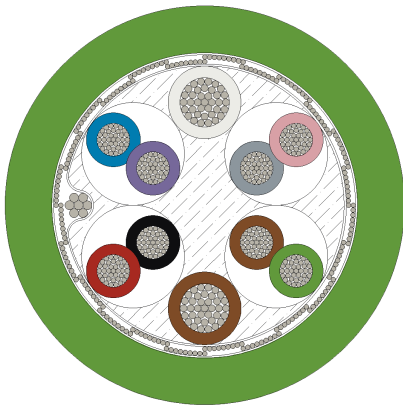
GROUP 1

CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
INSULATION	POLYPROPYLENE COMPOUND (PP)
INSULATION COLOR	VARIOUS COLOURS

GROUP 2

CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
INSULATION	POLYPROPYLENE COMPOUND (PP)
INSULATION COLOR	VARIOUS COLOURS

OVERALL STRANDING



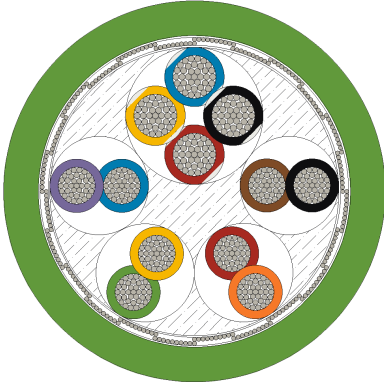
FILLER	FILLER POLYPROPYLENE COMPOUND (PP)
SEPARATION LAYER	WRAPPING NON-WOVEN TAPE
DRAIN WIRE	DRAIN WIRE TINNED COPPER
SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE
SHEATH	PVC COMPOUND.
SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES

EXCEPTIONS

INS. COLOUR EXC	GROUP 1 4X2X0,25 : BN-GN, GY-PK, BU-VT, RD-BK GROUP 2 2X0,50 : WH-BN
-----------------	---

TECO CODE 46635 CONSTRUCTION FEATURES

GROUP 1	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	VARIOUS COLOURS
GROUP 2	CONDUCTOR	CL6 EXTRA-FLEXIBLE. TINNED COPPER
	INSULATION	POLYPROPYLENE COMPOUND (PP)
	INSULATION COLOR	VARIOUS COLOURS
OVERALL STRANDING	FILLER	FILLER POLYPROPYLENE COMPOUND (PP)
	SEPARATION LAYER	WRAPPING NON-WOVEN TAPE
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
	SEPARATION LAYER	OVERALL STRANDING NON-WOVEN TAPE
	SHEATH	PVC COMPOUND.
	SHEATH COLOUR	GREEN, RAL: 6018, DESINA: YES
	EXCEPTIONS	INS. COLOUR EXC



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.
Company managed and coordinated by Erredue S.r.l.. All rights reserved. No reproduction permitted without written permission from TE.CO. Tecnologia Commerciale S.p.A.