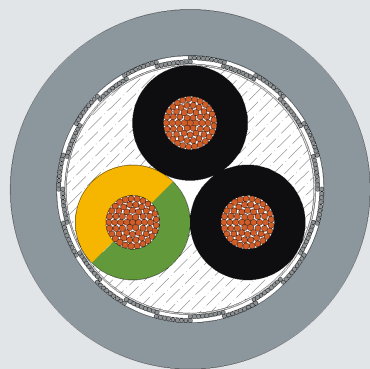


## STATIC APPLICATION



# TECNIFLEX<sup>®</sup>

## TC-ER MULTICORE SHIELDED (SH)

### APPLICATIVE FEATURES



#### MINIMUM BENDING RADIUS

CROSS SECTION MIN (MM <sup>2</sup> )	CROSS SECTION MAX (MM <sup>2</sup> )	DYNAMIC INSTALLATION	STATIC INSTALLATION
1.00	120.00	15.0xØ (occ. flexing)	6.0xØ

### DESCRIPTION

UL/CSA multi-rated flexible power and control cables, compliant with USA NFPA 79 and NFPA 70 standards. The UL certifications make them suitable for running inside cable trays and between two cable trays without anchoring. They are also suitable for underground use, even in dry, damp, or humid environments, and for open, unprotected installation from cable racks to machines and industrial electrical plants. Screening from electromagnetic interferences is provided thanks to the dense braid shield.

### APPROVALS



**TC-ER 90°C 600V**



**MTW 90°C 600V**



**AWM STYLE 21179  
90°C 1000V**



**AWM I/II A/B 90°C  
1000V**



**CSA CIC-TC-ER 90°C  
600V**



**2014/35/CEE**



**2014/30/EU**



**2011/65/UE**



**1907/2006**

### TECHNICAL DATA



**STATIC**  
-40 °C +90 °C  
**OCCASIONAL FLEXING**  
-5 °C +90 °C



**NOMINAL VOLTAGE**  
1000 V (UL AWM)  
600 V (UL MTW)  
1000 V (CSA)  
600 V (CSA CIC/TC)  
0,6/1 KV (IEC/VDE)



**TEST VOLTAGE**  
2 KV\*  
4 KV\*\*  
**TEST VOLTAGE REFERENCE**  
\*ACC. TO UL 1277 TAB. 14.1  
\*\*ACC. TO UL 758 TAB. 29.1



**INSULATION RESISTANCE**  
≥ 200 MOHM/KM

### CONSTRUCTION FEATURES

POWER CONDUCTORS	CONDUCTOR	CL5 FLEXIBLE. BARE COPPER
	INSULATION	PVC COMPOUND.
	INSULATION COLOR	BLACK CORE WITH WHITE PRINTED NUMBER + GREEN-YELLOW
OVERALL STRANDING	FILLER	FILLER NOT HYGROSCOPIC
	SEPARATION LAYER	TAPE POLYESTER TRANSPARENT.
	SCREEN	SCREEN TINNED COPPER 85 % ± 5 %
	SHEATH	PVC COMPOUND.
	SHEATH COLOUR	GRAY, RAL: 7001, DESINA: NO

## PRODUCTS FEATURES

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### FIRE PERFORMANCE

UL VERTICAL-TRAY FLAME TEST UL  
1581-1160  
FT4 (CSA)  
FT1 (CSA)  
FT2 (CSA)  
VW-1 (UL)  
CABLE FLAME TEST  
UL 1685  
FT4 IEEE 1202 VERTICAL FLAME TEST  
IEC 60332-1-2



### OIL PERFORMANCE

OIL RES I  
UL 1277  
UL 1063  
VDE 0473-811-404  
IEC 60811-404  
UL 1581



### UV PERFORMANCE

SUN RESISTANT  
UL 1277-20



### WATER PERFORMANCE

UL 90° DRY  
UL WET APPROVAL 75°C



### MUD PERFORMANCE

UL 1277  
DIRECT BURIAL NFPA 70  
UL TRAY CABLE  
EXPOSED RUN UL 1277

TECO CODE	N° CORES X CROSS-SECTION	CUT	ROLLS (M)	DRUMS (M)	EXT Ø (MM)	WEIGHT (KG/KM)
36437	(2X1,00)ST (2XAWG18)ST	✓	100	500	8.6	95
27551	(3G1,00)ST (3GAWG18)ST	✓	100	500	9	120
27552	(3G1,50)ST (3GAWG16)ST	✓		500	9.2	130
34337	(3G2,50)ST (3GAWG14)ST	✓		500	10.6	188
27553	(4G1,00)ST (4GAWG18)ST	✓		500	9.9	140
27554	(4G1,50)ST (4GAWG16)ST	✓		500	10.8	180
27555	(4G2,50)ST (4GAWG14)ST	✓		500/1000	11.7	240
27556	(4G4,00)ST (4GAWG12)ST	✓			13.3	330
27557	(4G6,00)ST (4GAWG10)ST	✓			15.3	475
27558	(4G10,00)ST (4GAWG08)ST	✓			19.8	766
27559	(4G16,00)ST (4GAWG06)ST	✓			25	1201
27560	(4G25,00)ST (4GAWG04)ST	✓			28.7	1694
36865	(4G35,00)ST (4GAWG02)ST	✓			31.5	2203
39292	(4G50,00)ST (4GAWG01)ST	✓			39	3100
43307	(4G70,00)ST (4GAWG2/0)ST	✓			44	4160
43308	(4G95,00)ST (4GAWG3/0)ST	✓			48.6	3960
27561	(5G1,00)ST (5GAWG18)ST	✓		500	10.6	170
30480	(5G1,50)ST (5GAWG16)ST	✓		500	11.7	240
28986	(7G1,00)ST (7GAWG18)ST	✓		500	11.7	211
27562	(7G1,50)ST (7GAWG16)ST	✓		500	12.7	270
27563	(7G2,50)ST (7GAWG14)ST	✓			14.5	390
39270	(7G4,00)ST (7GAWG12)ST	✓			16.2	545
34937	(12G1,00)ST (12GAWG18)ST	✓			15.7	350
27564	(12G1,50)ST (12GAWG16)ST	✓			17.2	445
27565	(12G2,50)ST (12GAWG14)ST	✓			18.6	606
39271	(12G4,00)ST (12GAWG12)ST	✓			21.4	815
39272	(18G1,00)ST (18GAWG18)ST	✓			18.2	485
39273	(18G1,50)ST (18GAWG16)ST	✓			20	625
39274	(18G2,50)ST (18GAWG14)ST	✓			23	848
39275	(18G4,00)ST (18GAWG12)ST	✓			26	1210
36438	(25G1,00)ST (25GAWG18)ST	✓			21	605
36439	(25G1,50)ST (25GAWG16)ST	✓			23.7	767

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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