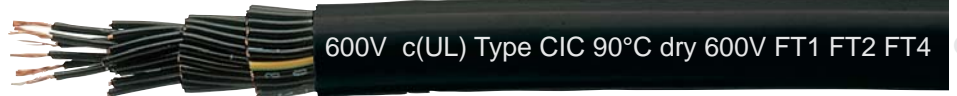


# TRAY CABLES

**NFPA 79  
for Industrial  
Machinery**

**TR 249 Type TC and STOOW** UV and oil resistant 90°C flexible tray cable - flexible Cord



Marking for TR 249 08491637: SAB BRÖCKSKES · D-VIERSEN · TR 249 16 AWG/37c 08491637 TFFN (UL) Type TC-ER 90°C 600V, Oil Resistant I, Sunlight Resistant, Direct Burial, FT4 (UL) STOOW 90°C 600V Oil Resistant I AWM Style 21179 600V c(UL) Type CIC 90°C dry 600V FT1 FT2 FT4 CE

TR 249 is a multi-conductor, 600 V, 90°C, UL recognized, UV and oil resistant flexible tray cable. Also flexible cord for use as specified in the National Electrical Code (NFPA 70) and in the National Fire Protection Association Electrical Standard for Industrial Machinery (NFPA 79). Flexible cords shall be used for connection of portable lamps, portable and mobile signs or appliances, wiring of cranes and hoists. Our specially designed PVC jacket passes the stringent requirements of the VDE test 0281 part 1 and HD 21.1 oil test providing the best oil resistance available for a PVC jacket. TR 249 tray cables are designed for use in all electrical equipment in dry, damp and wet conditions. Recommended applications are machine tools, control systems, assembly lines, CNC machining centers, grinding machines, bottling equipment, data processing equipment and connections between control panels and machines. TR 249 is permitted to be used in hazardous (classified) locations class I, Division 2 per NEC Article 501.4 (B), UL Type TC is in acc. to UL standard 1277 and NEC Article 336 (392, 501). The STOOW listed cable could be used in NFPA 79 Machinery Area.

## Construction:

<b>Conductor:</b>	bare copper strands acc. to IEC 60228 class 5 and UL standard 758 table 5.1 + UL 1581 table 20.1
<b>Insulation:</b>	special formulated PVC
<b>Color code:</b>	acc. to color code US 2 see page N/23
<b>Stranding:</b>	in layers
<b>Jacket material:</b>	special sunlight and oil resistant PVC
<b>Jacket color:</b>	black

## Outstanding features:

- ▶ Flexible cable for cable tray use even where sunlight resistance is required
- ▶ NFPA 79 for Industrial Machinery
- ▶ (UL)/(cUL) listed

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈ lbs/mft
<b>▶ 18 AWG</b>				
08491806	6	0.512	13.0	155
08491807	7	0.512	13.0	175
08491808	8	0.575	14.6	202
<b>▶ 16 AWG</b>				
08491603	3	0.394	10.0	97
<b>▶ 12 AWG</b>				
08491203	3	0.622	15.8	228
08491204	4	0.670	17.0	272

## Technical data:

<b>Voltage:</b>	<b>(UL) / c(UL):</b> 600 V	
<b>Testing voltage:</b>	3000 V	
<b>Min. bending radius</b>		
<i>fixed installation:</i>	< 12 mm = 3 x O.D. > 12 mm = 4 x O.D.	
<i>free movement:</i>	< 12 mm = 5 x O.D. > 12 mm = 6 x O.D.	
<b>Radiation resistance:</b>	8 x 10 <sup>7</sup> cJ/kg	
<b>Temperature:</b>	<b>UL-AWM:</b> up to +105°C	<b>(UL) / c(UL):</b> up to +90°C
<b>Burning characteristics:</b>	(UL) FT4 and c(UL) FT1, FT2, FT4	
<b>Oil resistance I:</b>	yes	
<b>Sunlight resistance:</b>	yes	
<b>Exposed Runs:</b>	yes	
<b>Direct Burial:</b>	yes	
<b>Machinery Area:</b>	yes	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union see page N/25	

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