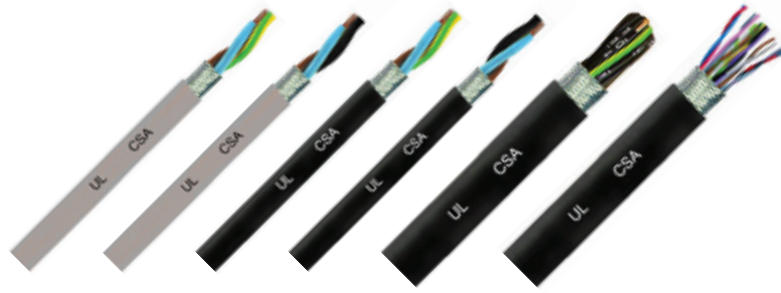


# MD-TE



## PUR, halogen free, UL 300 V, shielded

**Description.** Conductor insulation of halogen free polyolefin PP9Y, separation soft tape, tinned copper braid, min. coverage 85%, EMC 89/336/EC. Sheath of matt halogen free polyether polyurethane (PUR).

**Application.** Suitable for EMI (Electromagnetic Interferences) noises up to 100 kHz caused by power lines and by inductive circuits such as electrovalves, motors, transformers, etc., see paragraph "Signal Transmission Noises" in the section "General Information". Completely halogen free cable, it does not emit halogens in case of fire; flame resistance degree: UL94 horizontal flame test. Very good resistance to common chemical agents and oils (UL 1581).

Abrasion resistance and excellent mobile laying behaviour (7m/s<sup>2</sup>, 200 m/min).  
**Max working voltage:** 300 V. **Test voltage:** 1500 V up to 0,25 mm<sup>2</sup>, 2000 V over.

**Note to table:**

- (a) example: 3 = three wires; 2+1 = two wires + yellow/green earth; s = shielding.
- (b) colours: A = brown, blue, black, white, grey; yellow/green earth if present.  
 C = according to IEC 60304 (former DIN 47100), see section "General Information".  
 N = black with white numbers; yellow/green earth if present.
- (c) norms: UL = UL recognized (United States) / CSA = CSA recognized (Canada).

## PUR, senza alogeni, UL 300 V, con schermo

**Descrizione.** Isolante conduttori in poliolefina PP9Y senza alogeni, nastro morbido di separazione, schermo a treccia in rame stagnato, copertura minima 85%, EMC 89/336/CE. Guaina in poliuretano (PUR) polietere opaco senza alogeni.

**Impiego.** Adatto a ridurre disturbi EMI (Interferenze Elettromagnetiche) fino a 100 kHz generati da linee di potenza e da circuiti induttivi come elettrovalvole, motori, trasformatori, ecc., v. paragrafo "Disturbi di Trasmissione Segnali" nella sezione "Informazioni Generali". Interamente senza alogeni, non emette sostanze corrosive in caso di incendio. Grado di resistenza alla fiamma: UL94 test fiamma orizzontale. Ottima resistenza agli agenti chimici e agli idrocarburi comuni (UL1581). Ottimo comportamento in posa mobile (7m/s<sup>2</sup>, 200 m/min) e resistenza all'abrasione.

**Tensione massima di lavoro:** 300 V. **Tensione di prova:** 1500 V fino a 0,25mm<sup>2</sup>, 2000 V oltre.

**Note alla tabella:**

- (a) esempio: 3 = tre conduttori; 2+1 = due conduttori + terra giallo/verde; s = schermo.
- (b) colori: A = marrone, blu, nero, bianco, grigio; terra giallo/verde se presente.  
 C = secondo IEC 60304 (ex DIN 47100), vedere sezione "Informazioni Generali".  
 N = nero con numeri bianchi; terra giallo/verde se presente.
- (c) norme: UL = certificato UL (Stati Uniti) / CSA = certificato CSA (Canada).

Formation Formazione	Descriptive code Codice descrittivo	Short code Codice breve	Refer. or style Rifer. o style	Sheath colour Colore guaina	Wires colour Colore cond.	Copper class Classe rame	Static application Applicazione statica	Dynamic application Applicazione dinamica	Note Nota		
n x mm <sup>2</sup> (a)			(c)	RAL	(b)	IEC 60228	°C	°C			
<b>MD-TE9</b>											
0,14	[2x0,14]s	MD-TE91-02XA5	137	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[3x0,14]s	MD-TE91-03XA5	138	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[4x0,14]s	MD-TE91-04XC5	134	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[5x0,14]s	MD-TE91-05XC5	136	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[2x0,25]s	MD-TE92-02XA5		300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
0,25	[3x0,25]s	MD-TE92-03XA5		300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[4x0,25]s	MD-TE92-04XA5	264	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[5x0,25]s	MD-TE92-05XA5	261	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[6x0,25]s	MD-TE92-06XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[7x0,25]s	MD-TE92-07XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[8x0,25]s	MD-TE92-08XC5	262	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[10x0,25]s	MD-TE92-10XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[12x0,25]s	MD-TE92-12XC5	266	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[14x0,25]s	MD-TE92-14XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[16x0,25]s	MD-TE92-16XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[18x0,25]s	MD-TE92-18XC5	268	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[20x0,25]s	MD-TE92-20XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[25x0,25]s	MD-TE92-25XC5	270	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[37x0,25]s	MD-TE92-37XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	0,34	[2x0,34]s	MD-TE93-02XA5		300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80	
		[3x0,34]s	MD-TE93-03XA5	363	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80	
		[4x0,34]s	MD-TE93-04XA5	361	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80	
		[(4+1)x0,34]s	MD-TE93-05GA5	367	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80	
		[5x0,34]s	MD-TE93-05XA5	368	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80	
[6x0,34]s		MD-TE93-06XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[7x0,34]s		MD-TE93-07XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[8x0,34]s		MD-TE93-08XC5	369	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[10x0,34]s		MD-TE93-10XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[12x0,34]s		MD-TE93-12XC5	364	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[14x0,34]s		MD-TE93-14XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[16x0,34]s		MD-TE93-16XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[18x0,34]s		MD-TE93-18XC5	365	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[20x0,34]s		MD-TE93-20XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[25x0,34]s		MD-TE93-25XC5	370	300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
[37x0,34]s		MD-TE93-37XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
0,50		[2x0,50]s	MD-TE94-02XA5	491	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80	
		[(2+1)x0,50]s	MD-TE94-03GA5	492	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80	
	[3x0,50]s	MD-TE94-03XA5	493	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[(3+1)x0,50]s	MD-TE94-04GA5	494	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[4x0,50]s	MD-TE94-04XA5	495	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[(4+1)x0,50]s	MD-TE94-05GA5	496	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[5x0,50]s	MD-TE94-05XA5	497	300V 80°C UL-CSA	bk 9005	A	6	-40...+ 80	-30...+ 80		
	[6x0,50]s	MD-TE94-06XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[(6+1)x0,50]s	MD-TE94-07GN5		300V 80°C UL-CSA	bk 9005	N	6	-40...+ 80	-30...+ 80		
	[7x0,50]s	MD-TE94-07XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[8x0,50]s	MD-TE94-08XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[(9+1)x0,50]s	MD-TE94-10GN5		300V 80°C UL-CSA	bk 9005	N	6	-40...+ 80	-30...+ 80		
	[10x0,50]s	MD-TE94-10XC5		300V 80°C UL-CSA	bk 9005	C	6	-40...+ 80	-30...+ 80		
	[(11+1)x0,50]s	MD-TE94-12GN5	447	300V 80°C UL-CSA	bk 9005	N	6	-40...+ 80	-30...+ 80		

Formation Formazione	Descriptive code Codice descrittivo	Short code Codice breve	Refer. or style Rifer. o style	Sheath colour Colore guaina	Wires colour Colore cond.	Copper class Classe rame	Static application Applicazione statica	Dynamic application Applicazione dinamica	Note Nota
n x mm <sup>2</sup> (a)			(c)	RAL	(b)	IEC 60228	°C	°C	
0,50	[12x0,50]s	MD-TE94-12XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80	
	[14x0,50]s	MD-TE94-14XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80	
	[(15+1)x0,50]s	MD-TE94-16GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80	
	[16x0,50]s	MD-TE94-16XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80	
	[(17+1)x0,50]s	MD-TE94-18GN5	448 300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80	
	[18x0,50]s	MD-TE94-18XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80	
	[20x0,50]s	MD-TE94-20XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80	
	[25x0,50]s	MD-TE94-25XC5	449 300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80	
	[37x0,50]s	MD-TE94-37XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80	
	[2x0,75]s	MD-TE95-02XA5	591 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80	
	[(2+1)x0,75]s	MD-TE95-03GA5	592 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80	
	[3x0,75]s	MD-TE95-03XA5	593 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80	
[(3+1)x0,75]s	MD-TE95-04GA5	594 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[4x0,75]s	MD-TE95-04XA5	595 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[(4+1)x0,75]s	MD-TE95-05GA5	596 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[5x0,75]s	MD-TE95-05XA5	597 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[6x0,75]s	MD-TE95-06XC5	598 300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(6+1)x0,75]s	MD-TE95-07GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[7x0,75]s	MD-TE95-07XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[8x0,75]s	MD-TE95-08XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(9+1)x0,75]s	MD-TE95-10GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[10x0,75]s	MD-TE95-10XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(11+1)x0,75]s	MD-TE95-12GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[12x0,75]s	MD-TE95-12XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[14x0,75]s	MD-TE95-14XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(15+1)x0,75]s	MD-TE95-16GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[16x0,75]s	MD-TE95-16XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(17+1)x0,75]s	MD-TE95-18GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[18x0,75]s	MD-TE95-18XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[20x0,75]s	MD-TE95-20XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[2x1,00]s	MD-TE96-02XA5	691 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[(2+1)x1,00]s	MD-TE96-03GA5	692 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[3x1,00]s	MD-TE96-03XA5	693 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[(3+1)x1,00]s	MD-TE96-04GA5	694 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[4x1,00]s	MD-TE96-04XA5	695 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[(4+1)x1,00]s	MD-TE96-05GA5	696 300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[5x1,00]s	MD-TE96-05XA5	300V 80°C UL-CSA	bk 9005	A	6	-40...+80	-30...+80		
[6x1,00]s	MD-TE96-06XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(6+1)x1,00]s	MD-TE96-07GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[7x1,00]s	MD-TE96-07XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[8x1,00]s	MD-TE96-08XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(9+1)x1,00]s	MD-TE96-10GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[10x1,00]s	MD-TE96-10XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(11+1)x1,00]s	MD-TE96-12GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[12x1,00]s	MD-TE96-12XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[14x1,00]s	MD-TE96-14XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(15+1)x1,00]s	MD-TE96-16GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[16x1,00]s	MD-TE96-16XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[(17+1)x1,00]s	MD-TE96-18GN5	300V 80°C UL-CSA	bk 9005	N	6	-40...+80	-30...+80		
[18x1,00]s	MD-TE96-18XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
[20x1,00]s	MD-TE96-20XC5	300V 80°C UL-CSA	bk 9005	C	6	-40...+80	-30...+80		
<b>MD-TEG</b>									
0,34	[4x0,34]s	MD-TEG3-04XA5	366 300V 80°C UL-CSA	gy 7001	A	6	-40...+80	-30...+80	