

UNIDRALL® 5100

Cavi per la trasmissione del segnale ad alte prestazioni dinamiche
Signal transmission cables for Servo Motors with high dynamic performances



	Dati tecnici	Technical data
Conduttore Conductor	1 Rame rosso secondo CEI EN 60228 (CEI 20-29) classe 6	Bare copper complying with CEI EN 60228 (CEI 20-29) class 6
Isolamento ed identificazione Insulation and power core identification	2 TPE-E, TPE-O, PP, anime colorate con codice personalizzato	TPE-E, TPE-O, PP, coloured cores with customized code
Schermatura totale Overall shielding	3 Treccia di fili di rame stagnato. Copertura maggiore 85%	Tinned copper wire braid. Coverage above 85%
Guaina Jacket	4 PUR secondo UL 1581 and C22.2 n°210. Colore verde RAL 6018	PUR according to UL1581 and C22.2 n°210. Colour green RAL 6018
Tensione di lavoro Operating voltage	30÷300 V	30÷300 V
Tensione di prova Test voltage	1000 Vcc	1000 Vcc
Resistenza di isolamento Insulation resistance	> 20 MΩ·km	> 20 MΩ·km
Temperatura di lavoro Operating temperature	Posa fissa -50 ÷ 80 °C	Fixed application -50 ÷ 80 °C
	Posa dinamica in catena -30 ÷ 80 °C	Dynamic application into chain -30 ÷ 80 °C
Velocità [m/min] Speed	300	300
Accelerazione/ decelerazione [m/s²] Acceleration/ deceleration [m/s²]	40	40
Raggio minimo di curvatura Minimum bending radius	Posa fissa 5 x diametro esterno	Fixed application 5 x outer diameter
	Posa dinamica in catena 7,5 x diametro esterno	Dynamic application into chain 7,5 x outer diameter
Comportamento al fuoco Fire behaviour	Prova di non propagazione fiamma UL 758 e prova FT-2 CSA C.22.2 n°210	Cable flame test per UL 758 and FT-2 test per CSA C.22.2 n°210
Emissione gas alogenidrici Halogen gas emission	≤ 0,5% IEC 60754, CEI EN 50267-2	≤ 0,5% IEC 60754, CEI EN 50267-2
Resistenza agli oli industriali Industrial oil resistance	OIL 80°C UL 758 table 15.1, HD 22.10	OIL 80°C UL 758 table 15.1, HD 22.10
Resistenza all'acqua Water resistance	HD 22.10	HD 22.10

Questi cavi si utilizzano per il controllo dei servomotori delle macchine utensili, in catene di montaggio, linee di produzione, ecc. tramite il segnale proveniente dall'encoder, resolver, tachimetrica. La schermatura è ottimizzata in modo da ridurre al minimo le interferenze elettromagnetiche provenienti dagli altri cavi e dalle apparecchiature elettroniche.

La miscela in poliuretano della guaina, la quale risponde ai requisiti richiesti dalle Norme UL e CSA, conferisce al cavo un'ottima resistenza all'abrasione ed una elevata resistenza agli oli ed agenti chimici in generale.

Sono idonei ad essere installati in catene portacavi con elevate prestazioni meccaniche. I cavi UNIDRALL 5100, previsti a catalogo, comprendono le tipologie più diffuse per applicazioni ai servomotori.

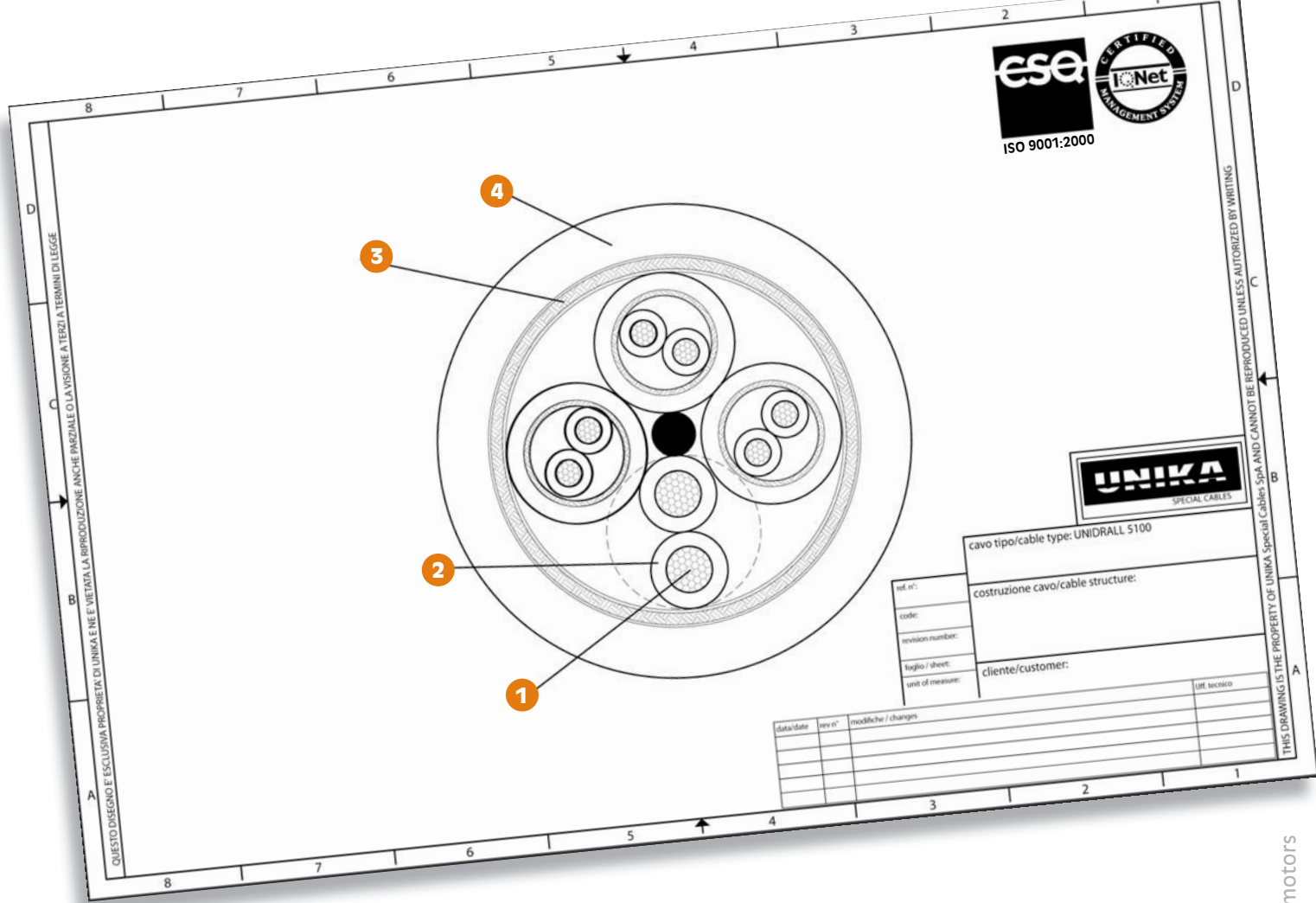
Invitiamo ad interpellarci per ogni applicazione particolare.

**Approvato DESINA.
Approvato UL/CSA:
80°C 1000V style 21576**

Such cables are suitable for controlling of servomotors of tooling machines, assembly lines, production lines, ecc. by means signals coming from encoder, resolver, taco, etc. Screening is optimised in order to minimize electromagnetic interferences coming from other cables and electronic equipment. Polyurethane jacketing compound, which meets the relevant UL and CSA Standards, provides at cables very good abrasion resistance and very good oil and chemical agent resistance.

They are suitable to be installed into travelling chain with high dynamic performances. UNIDRALL 5100 cables, inserted into the catalogue, include the most common applications to servomotors. We invite you to consult us for every particular application.

**DESINA Approved.
UL and CSA approvals:
80°C 1000V style 21576**



codice code	formazione assembly	applicazione application	codice colori colour code	diametro diameter (mm)	massa Cu Cu mass (Kg/km)	massa cavo cable mass (Kg/km)
3F001	9x0,50	Taco INDRAMAT	DIN 47100	8,5	81	140
3F002	10x2x0,18	SIEMENS	DIN 47100	9,7	50	109
3F003	8x2x0,25	Resolver	DIN 47100	8,6	70	130
3F004	3x(2x0,14)+2x0,50+4x0,14+4x0,25	Resolver SIEMENS	(red-orange, brown-black, green-yellow) + (brown/red, brown/blue) + (blue, grey, white/black, white/yellow) + (brown/yellow, brown/grey, green/red, green/black)	9,7	92	145
3F005	3x(2x0,14)+2x0,50+4x0,14	Resolver SIEMENS	(red-orange, brown-black, green-yellow) + (brown/red, brown/blue) + (blue, grey, white/black, white/yellow)	8,8	60	100
3F006	3x(2x0,14)+2x0,50	Encoder HEIDENHAIN	(red-orange, brown-black, green-yellow) + (brown/red, brown/blue)	8,6	48	95
3F007	3x(2x0,14)+2x(0,50)	Encoder HEIDENHAIN	(red-orange, brown-black, green-yellow) + (brown/red, brown/blue)	8,8	75	130
3F008	3x(2x0,14)+2x1	Encoder HEIDENHAIN	(red-orange, brown-black, green-yellow) + (brown/red, brown/blue)	8,8	60	95
3F009	3x(2x0,14)+2x(1)	Encoder HEIDENHAIN	(red-orange, brown-black, green-yellow) + (brown/red, brown/blue)	9,5	80	126
3F010	4x2x0,25+2x0,50	Encoder INDRAMAT	(blue-red, green-grey, brown-red/green, violet-white/brown) + (white/brown, white/black)	8,0	65	82

Cavi per alimentazione e controllo dei servomotori • Cables for feeding and controlling servomotors

codice code	formazione assembly	applicazione application	codice colori colour code	diametro diameter (mm)	massa Cu Cu mass (Kg/km)	massa cavo cablemass (Kg/km)
3F011	4x2x0,38+4x0,50	Encoder SIEMENS	(white/blue-orange, red-violet, blue-brown, black-yellow) + (green, white/black, white/red, white/yellow)	8,9	80	140
3F012	5x2x0,14+2x0,50	BAUMUELLER	(green-yellow, grey-pink, blue-red, black-violet, grey/pink-red/blue) + (blue, rosso)	8,0	72	105
3F013	4x2x0,25+2x1	Encoder INDRAMAT	(blue-red, green-grey, brown-red/green, violet-white/brown) + (white/brown, white/black)	8,8	75	101
3F014	10x0,14+2x0,50	HEIDENHAIN	(DIN 47100) + (white, brown)	7,2	49	83
3F015	10x0,14+4x0,50	HEIDENHAIN	(DIN 47100) + (white, brown, blue, black)	7,7	61	99
3F016	2x2x0,34	Encoder YASKAWA	DIN 47100	6,4	40	67
3F017	(2x0,34)+6x2x0,34+2x1	Encoder CONTROL TECNIQUE	(white, brown) + (green-yellow, grey-pink, blue-red, black-violet, green/white-green/brown, grey/pink-blue/red) + (red, blue)	10,8	95	165
3F018	4x(2x0,34)	Resolver	(red-black, white-black, green-black, blue-black)	11,2	85	180
3F019	8x0,34		DIN 47100	7,0	36	82
3F020	2x0,18 + 5x0,34		(white-brown) + (green, yellow, grey, pink, blue)	7,1	34	67
3F021	6x2x0,14+2x0,50+1x0,50	Encoder BALDOR	(grey-grey/black, yellow-yellow/black, pink-pink/black, brown, brown/white, green-green/white, violet-violet/white) + (blue, red) + orange	8,9	55	111
3F022	(2x0,50)+2x(2x0,14)+1x0,50	Resolver SSI BALDOR	(red-blue) + (green-yellow, pink-grey) + orange	7,6	50	95
3F023	2x(2x0,14)+2x0,50+2x2x0,14+1x0,50	ENDAT BALDOR	(violet, violet-white) + (red, blue) + (pink, pink/black, brown, brown/black) + orange	8,7	53	115

codice code	formazione assembly	applicazione application	codice colori colour code	diametro diameter (mm)	massa Cu Cu mass (Kg/km)	massa cavo cablemass (Kg/km)
3F024	3x(2x0,25)	Resolver	DIN 47100	9,1	72	105
3F025	4x(2x0,25)	Resolver	DIN 47100	10,2	86	125
3F026	6x(2x0,25)	Resolver	DIN 47100	12,3	111	170
3F027	8x(2x0,25)	Resolver	DIN 47100	15,6	150	235
3F029	4x2x0,14+4x0,50	Encoder HEIDENHAIN	(green-brown)+(yellow-violet)+(pink-grey)+(red-black) + white, blue, white/green, brown/green	8,0	60	80
3F030	6x0,34		DIN 47100	6,1	31	70
3F032	12x0,25	Tachimetrica	DIN 47100	6,9	43	90
3F034	4x2x0,25	SIEMENS	DIN 47100	7,2	32	76
3F035	2x0,34	Resolver DENAHER	(white-brown, green-yellow, grey-pink, blue-red)	4,7	15	35
3F042	(4x0,14)+4x2x0,14+4x0,50		(red, white)	8,0	60	100
3F050	(6x0,14)+4x2x0,14+4x0,50	HEIDENHAIM	(red-black, grey-pink, yellow-violet, brown-green)	9,5	90	240
3F051	8x2x0,18	Encoder BOSCH	(Green/black, yellow/black, blue/black, red/black, white/black, pink/black)+(brown-green, red-black, pink-grey, violet-yellow)+(white, white/green, blue, brown/green)	7,8	55	110