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CKS SAPFLEX PS522 SC

Screened encoder cable with PUR outer sheath for highly dynamic power chain application - certified



CKS Sapflex PS522 SC - Screened encoder cable for high dynamic power chain application in harsh conditions

Extended Line Performance - Long travel lengths or high acceleration
Fits to various encoder systems
AWM certification for USA

ADVANTAGES

Allows much faster speed and accelerations which increases the economic efficiency of the machines
Suitable for use with encoders & resolvers from leading manufacturers
Thin, optimised for weight and volume
Increased durability under harsh conditions thanks to robust PUR outer sheath



Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
Wide temperature range for applications in harsh climatic environments

APPLICATION RANGE

Connecting cable between servo controller and encoder/resolver
Connecting cable between servo controller and speed generators
In power chains or moving machine parts
Particularly in wet areas of machine tools and transfer lines
Assembly lines, production lines, in all kinds of machines
For indoor and outdoor use

PRODUCT FEATURES

Flammability: UL/CSA: VW-1, FT1 IEC/EN: 60332-1-2
Halogen-free materials
Low-capacitance design
Abrasion and notch-resistant
Oil-resistant
Travel Distance: Unsupported travels upto 100m for gliding application, class 6

PRODUCT MAKE-UP

Fine-wire or extra-fine wire, tinned-copper conductor
Core insulation: polypropylene (PP)
Cores (or core pairs) twisted in layers or bundles
Non-woven wrapping
PUR outer sheath

TECHNICAL DATA

Classification ETIM 5	ETIM 5.0 Class-ID: EC000104 ETIM 5.0 Class-Description: Control cable
Classification ETIM 6	ETIM 6.0 Class-ID: EC000104 ETIM 6.0 Class-Description: Control cable
Conductor stranding	Fine wire or extra-fine wire
Minimum bending radius	Flexing: up from 7.5 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage	IEC: 30 V UL & CSA: 30 V
Test voltage	Core/core: 1500 V rms Core/screen: 750 V rms

Temperature range

 Flexing: -40°C to +90°C
 (UL/CSA: +80°C)
 Fixed installation: -50°C to +90°C

ELECTRICAL INFORMATION

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
CKS SAPFLEX PS522 SC				
CKS PS522 SC1	(4x2x0,34+4x0,5)	8.9	79	125
CKS PS522 SC2	(3x(2x0,14)+(2x(0,5)))	9.6	70	120
CKS PS522 SC2	(3x(2x0,14)+4x0,14+2x0,5)	8.8	68	110
CKS PS522 SC3	(3x(2x0,14)+4x0,14+2x0,5+4x0,22)	9.4	80	130
CKS PS522 SC4	(2x2x0,18)	5.0	24	47
CKS PS522 SC5	(4x2x0,18)	6.4	30	52
CKS PS522 SC6	(8x2x0,18)	7.8	51	85
CKS PS522 SC7	(12x0,22)	7.1	44	73
CKS PS522 SC8	(4x2x0,25+2x1,0)	8.8	63	109
CKS PS522 SC9	(4x2x0,25+2x0,5)	8.5	62	98
CKS PS522 SC10	(4x1+4x2x0,14+(4x0,14))	9.7	103	175
CKS PS522 SC11	(3x(2x0,25)+3x0,25+2x1,0))	9.3	96	162
CKS PS522 SC12	(2x(2x0,25)+2x0,5)	8.7	46	98
CKS PS522 SC13	(2x2x0,25+2x0,5)	7.3	38	72
CKS PS522 SC14	(9x0,5)	8.8	71	110
CKS PS522 SC15	3x(2x0,14)+(2x0,5)	10.0	68	142
CKS PS522 SC16	3x(2x0,14)+(3x0,14)	9.2	57	125
CKS PS522 SC17	4x(2x0,14)+2x(1)	11.4	92	115
CKS PS522 SC18	(6x2x0,25+2x0,5)	10.3	67	121
CKS PS522 SC19	(10x0,14+2x0,5)	7.7	41	82
CKS PS522 SC20	(10x0,14+4x0,5)	8.1	54	98
CKS PS522 SC21	(2x2x0,14+2x(2x0,14)+4x0,5+(4x0,14))	9.1	79	135
CKS PS522 SC22	(4x2x0,25)	7.6	38	75
CKS PS522 SC23	(5x2x0,25)	9.0	50	126
CKS PS522 SC24	(6x2x0,25)	9.3	71	143
CKS PS522 SC25	(5x2x22AWG)	8.7	75	109
CKS PS522 SC26	(4x2x0,14+4x0,5)	8.2	51	95

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
CKS PS522 SC27	(3x(2x0,14)+2x(0,5))	9.6	70	120
CKS PS522 SC28	(3x(2x0,14)+2x(1))	9.1	74	137
CKS PS522 SC29	(4x2x0,14+4x0,50+(4x0,14))	8.3	88	134
CKS PS522 SC30	(3x2x0,25+2x0,5)	8.4	50	86
CKS PS522 SC31	(5x2x0,25+2x0,5)	9.5	69	113
CKS PS522 SC32	(3x2x24AWG)	6.5	36	70
CKS PS522 SC33	(5x2x0,14+2x0,5)	7.8	51	101
CKS PS522 SC34	(2x2x0,18+5x0,5)	7.6	62	110
CKS PS522 SC35	(5x2x0,18+6x0,5)	8.7	79.2	113
CKS PS522 SC36	(10x2x28AWG)	6.2	41	70