



42

CKS SAPFLEX PS541 SC

Halogen-free, highly flexible and screened control cable with abrasion and MUD-resistant PUR sheath



CKS Sapflex PS541 SC - Screened, halogenfree power and control cable for power chain application, oil- and mud resistant
 Extended Line Performance - Long travel lengths or high acceleration
 Resistant to oil and drilling fluids
 EMC compliant copper screening

ADVANTAGES

Especially suitable for contact with oil- and ester-based drilling muds as well as calcium bromide solutions
 Resistant to contact with many mineral oil-based lubricants, diluted acids, aqueous alkaline solutions and other chemical media
 Suitable for long horizontal drag chain travel distances



Additional robustness thanks to inner sheath
 Wide temperature range for applications in harsh climatic environments
 Copper braiding screens the cable against electromagnetic interference

APPLICATION RANGE

Permanently moved power chains or machine parts in harsh environment
 Onshore and offshore applications
 In wet areas within machinery and production or assembly lines
 For use in assembling & pick-and-place machinery
 For indoor and outdoor use

PRODUCT FEATURES

Salt water-resistant
 Halogen-free and flame-retardant
 Good weather, ozone, UV and oil resistance
 Good notch and abrasion resistance
 Flexible at low temperatures
 EMC-compliant

PRODUCT MAKE-UP

Extra-fine wire strand made of bare copper
 Core insulation: TPE
 Cores twisted in short lay lengths
 Non-woven wrapping
 Inner sheath made of TPE
 Tinned copper screen braiding
 Outer sheath made of robust special polymer

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	Extra-fine wire acc. to VDE 0295, class 6/ IEC 60228 class 6
Minimum bending radius	Flexing: up from 7.5 x outer diameter Fixed installation: 4 x outer diameter
Nominal voltage	U0/U: 300/500 V
Test voltage	3000 V

Protective conductor G = with GN-YE protective conductor
 X = without protective conductor

Temperature range Flexing: -50°C to +80°C
 Fixed installation: -60°C to +80°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 PS541 SC				
CKS PS541 5002	2 X 0.5	6.7	32	67
CKS PS541 5003	3 X 0.5	7.1	40	79
CKS PS541 5004	4 X 0.5	7.6	47	84
CKS PS541 5005	5 X 0.5	8.2	53	107
CKS PS541 5007	7 X 0.5	9.5	67	132
CKS PS541 50012	12 X 0.5	10.9	97	190
CKS PS541 50018	18 X 0.5	12.9	131	245
CKS PS541 50020	20 X 0.5	13.5	156	281
CKS PS541 50025	25 X 0.5	15.6	190	367
CKS PS541 50030	30 X 0.5	15.8	222	408
CKS PS541 50036	36 X 0.5	16.9	251	459
CKS PS541 75002	2 X 0.75	7.2	40	79
CKS PS541 75003	3 X 0.75	7.6	47	96
CKS PS541 75004	4 X 0.75	8.3	58	112
CKS PS541 75005	5 X 0.75	8.9	65	126
CKS PS541 75007	7 X 0.75	10.6	85	165
CKS PS541 750012	12 X 0.75	12.1	127	231
CKS PS541 750018	18 X 0.75	14.6	198	330
CKS PS541 750020	20 X 0.75	15.5	213	354
CKS PS541 750025	25 X 0.75	17.7	259	459
CKS PS541 750030	30 X 0.75	17.7	296	480
CKS PS541 750036	36 X 0.75	19.5	348	605
CKS PS541 0102	2 X 1.0	7.6	45	93
CKS PS541 0103	3 X 1.0	8.1	55	109
CKS PS541 0104	4 X 1.0	8.8	68	126
CKS PS541 0105	5 X 1.0	9.6	81	147
CKS PS541 0107	7 X 1.0	11.3	106	196

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
CKS PS541 01012	12 X 1.0	13.2	175	292
CKS PS541 01018	18 X 1.0	15.9	242	418
CKS PS541 010120	20 X 1.0	16.6	269	427
CKS PS541 01012	25 X 1.0	19.2	329	575
CKS PS541 01030	30 X 1.0	19.6	377	635
CKS PS541 01036	36 X 1.0	21.2	467	758
CKS PS541 5102	2 X 1.5	8.3	58	115
CKS PS541 5103	3 X 1.5	8.9	76	139
CKS PS541 5104	4 X 1.5	9.8	91	156
CKS PS541 5105	5 X 1.5	10.8	111	198
CKS PS541 5107	7 X 1.5	12.5	145	254
CKS PS541 51012	12 X 1.5	14.9	242	416
CKS PS541 51018	18 X 1.5	17.4	346	564
CKS PS541 51020	20 X 1.5	18.3	377	562
CKS PS541 51025	25 X 1.5	21.4	486	811
CKS PS541 51030	30 X 1.5	21.4	568	821
CKS PS541 51036	36 X 1.5	23.4	655	1066
CKS PS541 5202	2 X 2.5	9.8	73	129
CKS PS541 5203	3 X 2.5	10.7	110	194
CKS PS541 5204	4 X 2.5	11.7	136	234
CKS PS541 5205	5 X 2.5	12.8	180	293
CKS PS541 5207	7 X 2.5	15.6	246	418
CKS PS541 52012	12 X 2.5	18	377	629
CKS PS541 52018	18 X 2.5	21.5	569	912
CKS PS541 52020	20 X 2.5	22.7	582	850
CKS PS541 52025	25 X 2.5	26.5	765	1266
CKS PS541 0404	4 X 4.0	13.9	205	311
CKS PS541 0405	5 X 4.0	15.4	250	381
CKS PS541 0604	4 X 6.0	16.2	289	423
CKS PS541 0605	5 X 6.0	17.8	354	512
CKS PS541 01004	4 X 10.0	20.4	475	672
CKS PS541 01005	5 X 10.0	22.3	582	814