



CBLS

(CBLS)

SUPER SAX
MOTOR
CABLES

Preassembled shielded, power and feedback cables. Current rating up to 20 Arms for the power cables. All cables are for mobile usage.



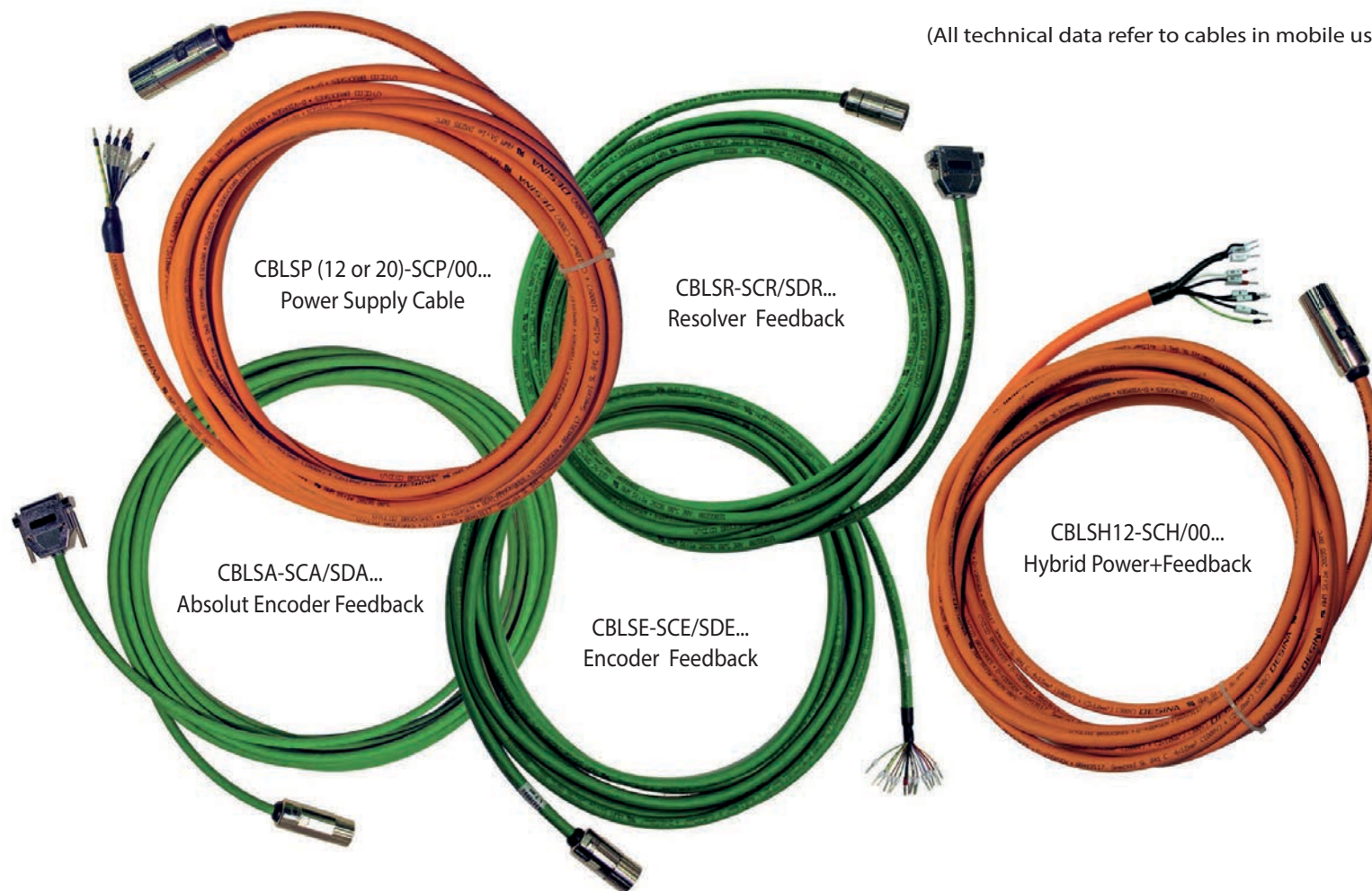
STANDARD FEATURES

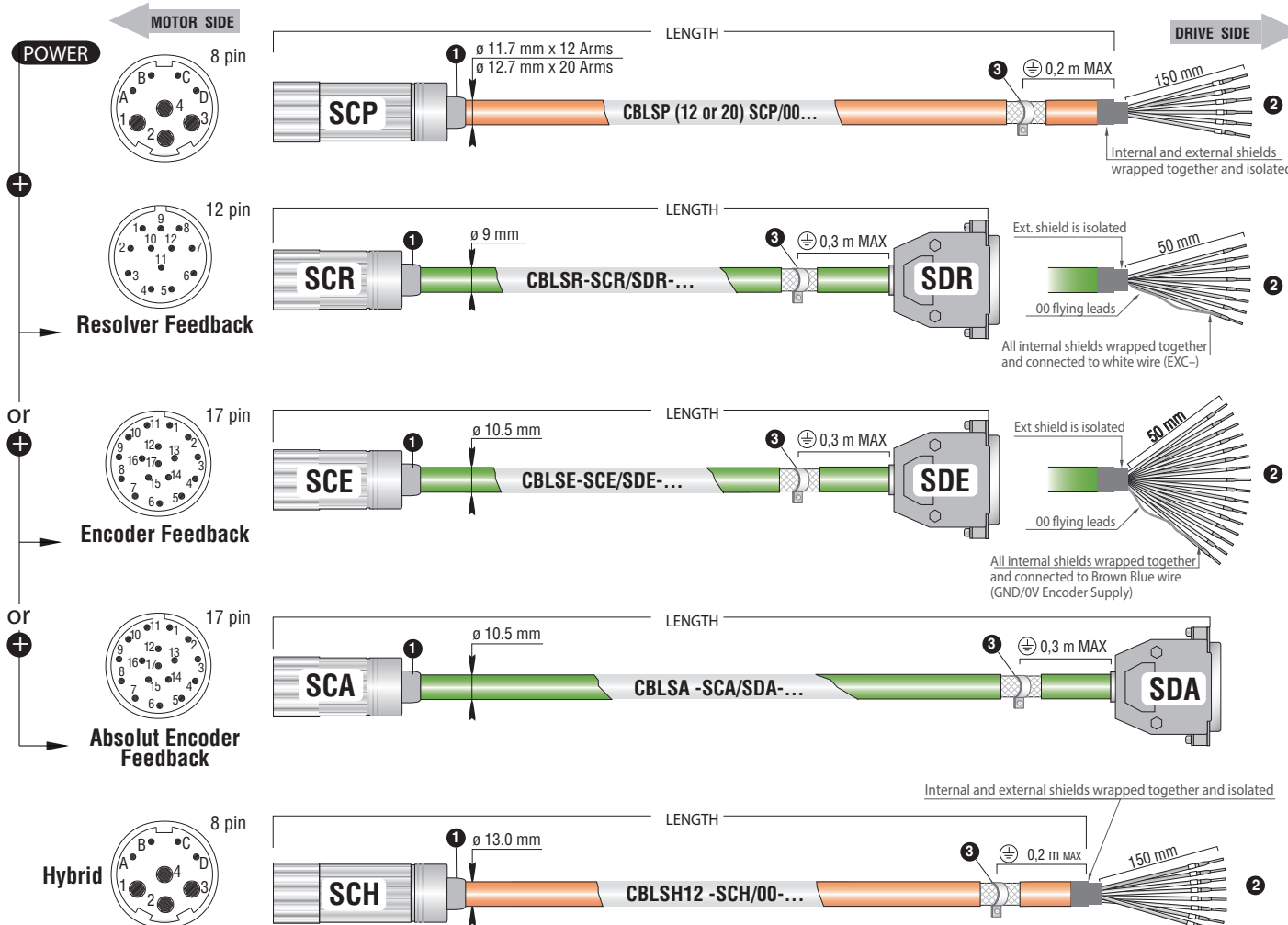
- ◆ Suitable for cable chain tracks
- ◆ External sheath:..... PUR polyurethane - 11Y
- ◆ Conductor insulation:..... TPE polyester - 12Y
- ◆ DIN VDE approvals
- ◆ DESINA® colours
 - power cable:..... orange RAL 2003
 - feedback cable:..... green RAL 6018
 - hybrid power+feedback cable:..... orange RAL 2003
- ◆ RoHS compliant
- ◆ Halogen - free
- ◆ Flame retardant and self extinguishing
- ◆ Oil and chemical resistance

SPECIFICATIONS

- ◆ Trailing speed..... 180 m / min max
- ◆ Acceleration/Deceleration..... 7 m / sec² max
- ◆ Operating life..... 5 million bending cycles
- ◆ Minimum bending radius:..... 12 x cable diameter
- ◆ Capacitance between conductors:..... < 100pF/m (60°C)
- ◆ Conductor resistance (20°C):.....
 - 1.5 mm² = 13.5 Ω / Km max
 - 2.5 mm² = 8 Ω / Km max
 - 1.0 mm² = 19.5 Ω / Km max
 - 0.5 mm² = 40 Ω / Km max
- ◆ Working voltage:.....
 - For conductors ≤ 1 mm² = 300V
 - For conductors ≥ 1.5 mm² = 1000V
- ◆ Operating temperature:..... - 20 - +70 °C

(All technical data refer to cables in mobile usage)





SCP pin	FUNCTION	(mm ²)	WIRE COLOR	MARK
1 / 4 / 3	U / V / W MOTOR Ph	1.5 / 2.5	Black 1U / 2V / 3W	U / V / W
2	PE ⊕ GND	1.5 / 2.5	Green Yellow	—
C / D	(+) / (–) BRAKE	1.0	White BR1 / Black BR2	BR+ / BR–
A / B	N.C.			
EXT. HOUSING	PE ⊕		All internal shields + External shield	

SCR pin	FUNCTION	(mm ²)	WIRE COLOR	SDR
4 / 8	COS. (+) / COS. (–)	0.25	Blue / White	XXC 24 / 15
3 / 7	SEN. (+) / SEN. (–)	0.25	Yellow / White	XXC 23 / 14
5 / 9	EXC. (+) / EXC. (–)	0.25	Red / White	XXC 25 / 16
2 / 6	Th. Switch - PTC	0.25	Green / White	XXC 4 / 17
1/10/11/12	N.C.			All other pins
EXT. HOUSING	GND / ØV		All internal shields	13
	PE ⊕		External shield	8

SCE pin	FUNCTION	(mm ²)	WIRE COLOR	SDE
3 / 4	+5V / ØV Enc. Supply	0.5	Brown red / Brown blue	21 / 13
5 / 6	CHA (+) / CHA (–)	0.14	Yellow / Green	XXC 5 / 18
7 / 8	CHB (+) / CHB (–)	0.14	Red / Orange	XXC 6 / 19
9 / 10	CHZ (+) / CHZ (–)	0.14	Black / Brown	XXC 7 / 20
11 / 12	HALL A (+) / HALL A (–)	0.22 / 0.14	Green Black / White Yellow	10 / 1
13 / 14	HALL B (+) / HALL B (–)	0.14 / 0.22	White Black / Green Red	2 / 11
15 / 16	HALL C (+) / HALL C (–)	0.22	Brown Grey / Brown Yellow	12 / 3
2 / 17	Th. Switch - PTC	0.14	Blue / Grey	4 / 17
1	N.C.			All other pins
EXT. HOUSING	GND / ØV		All internal shields	13
	PE ⊕		External shield	8

SCA pin	FUNCTION	(mm ²)	WIRE COLOR	SDA
3 / 4	+5V / ØV Enc. Supply	0.5	Brown red / Brown blue	21 / 13
5 / 6	Clock (+) / Clock (–)	0.14	Yellow / Green	XXC 5 / 18
7 / 8	Data (+) / Data (–)	0.14	Red / Orange	XXC 6 / 19
2 / 17	Th. Switch - PTC	0.14	Blue / Gray	4 / 17
1/9/10/11/12/13/14/15/16	N.C.			All other pins
EXT. HOUSING	GND / ØV		All internal shields	13
	PE ⊕		External shield	8

SCH pin	FUNCTION	(mm ²)	WIRE COLOR	MARK
1 / 4 / 3	U / V / W MOTOR Ph	1.5	Black U...V...W...	U / V / W
2	PE ⊕ GND	1.5	Green Yellow	—
C / D	(+) / (–) BRAKE	1.0	White / Black	BR+ / BR–
A	+ Vs / ⊕ Serial Encoder	0.2	Blue	+ SE
B	Ø Vs / ⊖ Serial Encoder	0.2	White	– SE
EXT. HOUSING	GND / ØV		All internal shields	
	PE		External shield	

NOTE:

1 All shields (internal and external) wired to connector housing. 2 Unused wires must be isolated. 3 Remove the outer sheath to expose the overall ext. shield and connect it to the cabinet's metal back plate PE ⊕ using the metal U-clamps provided to ensure good ground connection.

CBL	P	12	-	SCP	/	00	-	100	SXXX
NAME:	TYPE:	CURRENT RATING:	ASSEMBLY MOTOR SIDE:	ASSEMBLY DRIVE SIDE:	LENGTH:	SPEC NUMBER (opt):			
Preassembled cables for SSAX servomotors	PX = Power cable w/out brake (orange) P = Power cable with brake (orange) R = Resolver cable (green) E = Commutation encoder cable (green) A = Absolute encoder (green) H = Hybrid Power+Serial Encoder (orange)	00 = Signal cable 12 = Up to 12 Arms 20 = Up to 20 Arms	SCP = Screw power conn. SCE = Screw encoder conn. SCR = Screw resolver conn. SCA = Screw absolute enc. conn. SCH = Screw Hybrid conn.	00 = Flying leads (no connector) SDR = SubD resolver connector (25 pin) SDE = SubD encoder connector (25 pin) SDA = SubD absolute enc. conn. (25 pin)	035 = 3.5 m 050 = 5 m 070 = 7 m 100 = 10 m 150 = 15 m 200 = 20 m	001-999 = spec number			