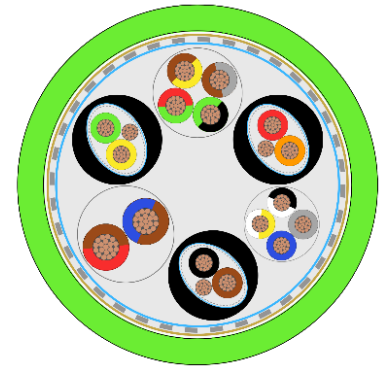


# TEAM SERVO MOBILE SIEMENS SSSIEMENS1BD51 PUR



According to SIEMENS® 6FX8008  
AWM Style 20236 (80°C / 30V)



## Elements A<sub>1</sub>A<sub>2</sub>A<sub>3</sub> - Pairs shielded and jacketed 3x2xAWG26 (Li9YD2Y)

Conductor: Stranded tin copper wire 0,16mm; nom. 0,14mm<sup>2</sup> - AWG26; nominal diameter 0,48mm. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58.

Insulation: PP compound; nominal diameter 0,83mm.

Assembly: Two cores twisted to a pair; colour Black-Brown, Yellow-Green, Red-Orange.

Shield: Spiral type; Tin copper wire; nominal optical coverage 90%.

Drain wire: Stranded tin copper wire; nom. 0,14mm<sup>2</sup> - AWG26 (under shield).

Protective tape: PET tape over shield.

Jacket: PE compound; nominal diameter 2,40mm; colour Black RAL9005.

## Element C - Quad 4xAWG24 (Li9Y)

Conductor: Stranded tin copper wire 0,20mm; nom. 0,22mm<sup>2</sup> - AWG24; nominal diameter 0,60mm. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58.

Insulation: PP compound; nominal diameter 1,00mm.

Assembly: Four cores twisted in quad; colour brown/yellow - brown/grey - green/black - green/red.

## Total Assembly

elementA<sub>1</sub> + elementB + elementA<sub>2</sub> + elementC + elementA<sub>3</sub> + elementD stranded together around a filler.

## Element B - Pair 2xAWG20 (Li9Y)

Conductor: Stranded tin copper wire 0,19mm; nom. 0,54mm<sup>2</sup> - AWG20; nominal diameter 0,95mm. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58.

Insulation: PP compound; nominal diameter 1,30mm.

Assembly: Two cores twisted in pair; colour brown/red - brown/blue

## Element D - Quad 4xAWG16 (Li9Y)

Conductor: stranded tin copper wire 0,16mm; nom. 0,14mm<sup>2</sup> - AWG26; nominal diameter 0,48mm. Lay agree with UL 758 tab 5,9; conform to EN 13602 - ETP1, DIN 40500 E-Cu 58.

Insulation: PP compound; nominal diameter 0,83mm.

Assembly: Four cores twisted in quad; colour grey - blue - white/yellow - white/black.

## Protective Tape

PET over total assembly.



### Total Shield

Braid type; tin copper wire; optical coverage 85 ±5%

### Jacket

PUR (ether base), 92 ShA; diameter 9,40 ±0,40mm; conform to UL Style 20236; Color: Green RAL6018.

### Physical

Operating temperature range: -40°C to +80°C (fixed)  
Operating temperature range: -20°C to +80°C (flex)  
Minimum bending radius: 4 x D (fixed)  
Minimum bending radius: 7,5 x D (flex)

### Flame

Flame resistant: UL Cable flame test; CSA FT1; IEC 60332-1-2

### Protective Tape

Nonwovens tape (TNT) over total shield.

### Electrical

Operating voltage: 30 Vrms  
Voltage test (wire/wire/screen): 500 V x 1min (f=50Hz)  
Max conductor resistance AWG26: 154,6 Ω/Km  
Max conductor resistance AWG24: 98,0 Ω/Km  
Max conductor resistance AWG20: 39,3 Ω/Km  
Insulation resistance: ≥ 1000 MΩxKm  
Nominal capacity @1KHz (AWG26): 80 nF/Km  
Nominal impedance (AWG26): 80 Ω

### Chemical

Oil resistant: yes (UL758)  
Silicone, Pb, Cd, Hg, FCKW free: yes  
Halogen free: yes (CEI EN 60754-1 / VDE 0482-754-1)

### Movement Data @20°C

Bending cycles: 10 Mio (20 Mio stroke)  
Max speed (horizontal): 300 m/min  
Max acceleration: 50 m/sec<sup>2</sup>  
Torsion angle: ≤ ±30°/m

Name	Cable Type	Ø mm	Tolerance
SSSIEMENS1BD51	3 x (2 x 0,14) + 4 x 0,14 + 4 x 0,22 + 2 x 0,54	9,4	±0,40 mm

