

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0082283020](#)
Status: **Active**
Description: 1.00mm (.039") Pitch Round Conductor Flat Cable - 28 AWG (7 x 36) Stranded, Tinned, 20 Circuits, Reel 30.48m (100.0') Length

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR61126
 UL E61522

General

Product Family Cable
 Series [24500](#)
 Crimp Quality Equipment Yes
 Geographic Area Asia
 Product Name Ribbon

Physical

Cable Length 30.48m (100.0')
 Circuits (Loaded) 20
 Insulation PVC
 Packaging Type Reel
 Pitch - Term. Interface (in) 0.039 In
 Pitch - Term. Interface (mm) 1.00 mm
 Temperature Range - Operating -20°C to +105°C
 Wire Size AWG 28
 Wire/Cable Type (7x36) Stranded, Tinned

Electrical

Current - Maximum per Contact N/A
 Voltage - Maximum 300V

Material Info

Old Part Number 24500-20-100B

Reference - Drawing Numbers

Sales Drawing SD-24500-001



EU RoHS

**ELV and RoHS
 Compliant**
REACH SVHC
 Not Reviewed
**Halogen-Free
 Status**
 Not Reviewed

China RoHS



**Need more information on product
 environmental compliance?**

Email productcompliance@molex.com
 For a multiple part number RoHS Certificate of
 Compliance, [click here](#)

Please visit the [Contact Us](#) section for any
 non-product compliance questions.

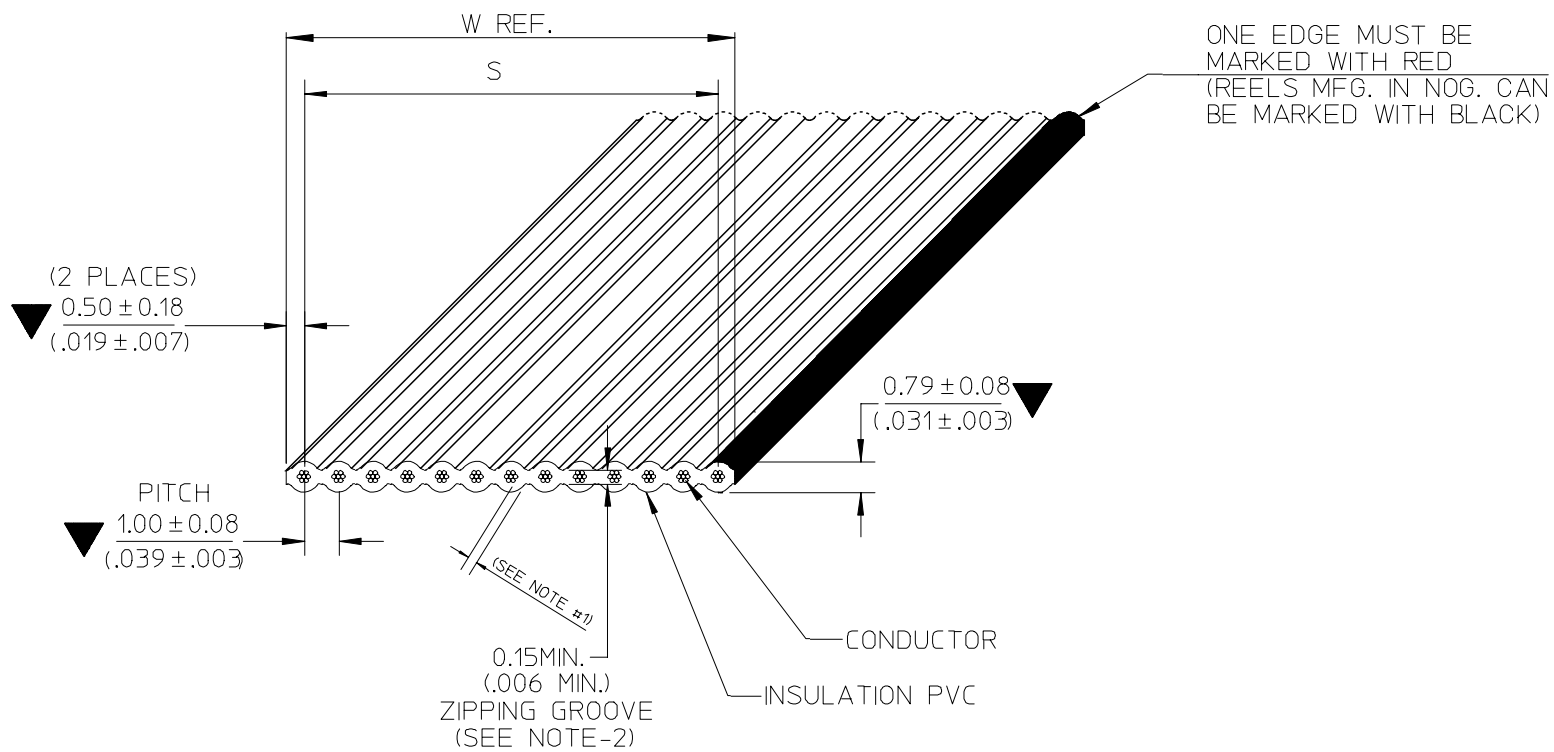
Search Parts in this Series

[24500Series](#)

Use With

[70121](#) MX-50™ Slimline Ribbon Cable.
[90584](#) Picoflex® PF-50 IDT Receptacle

7 6 5 4 3 2 1



- NOTE :**
1. THE CABLE SHALL HAVE A MINIMUM OF 0.178mm. (.007") THICKNESS INSULATION AT ANY POINT
 2. RIP TEST:
 - THE 0.15mm. (.006") ZIPPING GROOVE SHALL BE CAPABLE OF BEING RIPPED BY HAND WITHIN THE RECESS, WITHOUT EXPOSING THE ADJACENT CONDUCTORS
 3. RoHS AND LEAD FREE COMPLIANT
 4. SPECIAL REQUIREMENT: N/A

B	E-07-0748	B ₁ : ADD NON-OPERATING TEMP.	07/11/22
A	N/A	NEW RELEASE.	06/07/10
REV. HISTORY	EC NO.	DETAIL	DATE

SEE CHANGE DETAIL.
 EC NO: THL2008-0015
 DRWN: CPANSAKHOM 2007/11/28
 CHKD: DNARINTARA 2007/11/29
 APPR: SVIRATJAPOL 2007/12/04

QUALITY SYMBOLS
▼ = 3
▽ = 0
DESCRIPTION
REV

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm INCH
4 PLACES	± --- ± ---
3 PLACES	± --- ± ---
2 PLACES	± --- ± ---
1 PLACE	± --- ± ---
ANGULAR ± --- °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM/IN	
DRAWN BY	DATE
CPANSAKHOM	2006/07/10
CHECKED BY	DATE
PMEECHAI	2006/07/10
APPROVED BY	DATE
SVIRATJAPOL	2006/07/10
MATERIAL NO.	
SEE CHART	
SIZE	
A 4	

SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
TITLE		
FCB ROUND CONDUCTOR 1.00MM(.039)CENTERS PVC. 28AWG STR TINNED		
MOLEX INCORPORATED		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE CHART	SD-24500-001	1 OF 3
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

E

E

SPECIFICATIONS

PHYSICAL

CONDUCTOR SPACING ----- 1.00(.039") \bar{C} TO \bar{C}
 WIRE GAUGE ----- 28 AWG(7/36) STRANDED TINNED
 INSULATION ----- P.V.C GRAY (LEAD FREE)

AGENCY

U.L. STYLE NO. ----- 2651
 TEMPERATURE RATING ----- -20°C TO 105°C
 VOLTAGE RATING ----- 300V.MAX.
 FLAMMABILITY RATING ----- VW-1

ELECTRICAL

CONDUCTOR RESISTANCE (D.C.) ----- 68 m OHMS/FT. MAX.
 CHARACTERISTIC IMPEDANCE ----- TBD. OHMS NOM. (GS)
 ----- TBD. OHMS NOM. (GSG)
 CAPACITANCE ----- TBD. pF/FT. NOM. (GS)
 ----- TBD. pF/FT. NOM. (GSG)
 PROPAGATION DELAY ----- 1.4 ns/FT. NOM.
 INSULATION RESISTANCE ----- 10M OHMS (10FT. SAMPLE)
 DIELECTRIC WITHSTAND VOLTAGE ----- 2000 VRMS/MINUTE

GENERAL

\triangle NON-OPERATING TEMPERATURE ----- -20°C TO 105°C
 FAULTS AND/OR SPLICES ----- 1/REEL MAX. 100 $^{+3}_0$ FT. (30.48 $^{+0.914}_0$ M.)/REEL
 20FT. (6.096M.) MIN. LENGTH

D

D

C

C

B

B

A

A

SEE CHANGE DETAIL. EC NO: THL2008-0015 DRWN: CPANSAKHOM 2007/11/28 CHKD: DNARINTARA 2007/11/29 APPR: SVIRATJAPOL 2007/12/04	DESCRIPTION REV	QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
						MM/IN		NTS	INCH				
		\blacktriangledown = \triangle =		mm	INCH	DRAWN BY	DATE	TITLE					
				4 PLACES	\pm ----	\pm ----	CPANSAKHOM	2006/07/10	FCB ROUND CONDUCTOR 1.00MM(.039)CENTERS PVC. 28AWG STR TINNED				
				3 PLACES	\pm ----	\pm ----	CHECKED BY	DATE					
		2 PLACES	\pm ----	\pm ----	PMEECHAI	2006/07/10	MOLEX INCORPORATED						
		1 PLACE	\pm ----	\pm ----	APPROVED BY	DATE							
		ANGULAR \pm ----		SVIRATJAPOL		2006/07/10	DOCUMENT NO.		SHEET NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.		SD-24500-001		2 OF 3			
		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

CHART A				
DIMENSIONS MM. (INCHES)				
ENGINEERING NO.	ORDER NO.	NO. OF CONDUCTOR	DIMENSION S	DIM. W (REF.)
24500-10-100B	82-28-3010	10	9.00±0.18 (.354±.007)	10.00 (.394)
▲ -20- ▲	▲ 20	20	19.00±0.23 (.748±.009)	20.00 (.787)
-24-	24	24	23.00±0.23 (.906±.009)	24.00 (.945)
-26-	26	26	25.00±0.23 (.984±.009)	26.00 (1.024)
-30-	30	30	29.00±0.28 (1.142±.011)	30.00 (1.181)
-34-	34	34	33.00±0.28 (1.299±.011)	34.00 (1.339)
-40-	40	40	39.00±0.28 (1.535±.011)	40.00 (1.575)
▼ -44- ▼	▼ 44	44	43.00±0.28 (1.693±.011)	44.00 (1.732)
24500-50-100B	82-28-3050	50	49.00±0.28 (1.929±.011)	50.00 (1.969)

ENGINEERING NO.

24500-XX-XXXX

A B C D

- A : CABLE 1.00mm. (.039") CENTERS 28AWG STRANDED TINNED
- B : CONDUCTOR SIZE (AVAILABILITY 10,20,24,26,30,34,40,44 AND 50)
- C : CABLE LENGTH 100FT. (30.48M.)
- D : A = INCHES
B = FEET

SEE CHANGE DETAIL. EC NO: THL2008-0015 DRWN: CPANSAKHOM 2007/11/28 CHKD: DNARINTARA 2007/11/29 APPR: SVIRATJAPOL 2007/12/04	DESCRIPTION REV	QUALITY SYMBOLS ▼ = ▽ =	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <td></td> <td>mm</td> <td>INCH</td> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td colspan="3">ANGULAR ± ---°</td> </tr> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± ---	± ---	1 PLACE	± ---	± ---	ANGULAR ± ---°			DIMENSION STYLE MM/IN DRAWN BY CPANSAKHOM DATE 2006/07/10 CHECKED BY PMEECHAI DATE 2006/07/10 APPROVED BY SVIRATJAPOL DATE 2006/07/10	SCALE NTS DESIGN UNITS INCH THIRD ANGLE PROJECTION	TITLE FCB ROUND CONDUCTOR 1.00MM(.039)CENTERS PVC. 28AWG STR TINNED MOLEX MOLEX INCORPORATED	MATERIAL NO. SEE CHART DOCUMENT NO. SD-24500-001 SHEET NO. 3 OF 3
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