

	EXCEL CELL ELECTRONIC CO., LTD.	NO.	A31233		
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ETBH50 SERIES TERMINAL BLOCK

1. FEATURES:

- 1-1. Screwless design can reduce time for connecting wire
- 1-2. Stackable up to 24 poles
- 1-3. UL 94V-0 grade fire retardant engineering plastic
- 1-4. Be capable of clamping a wide range of wire diameters
- 1-5. Horizontal conductor entry compact size for P.C.B.

2. SPECIFICATIONS:

2-1. ELECTRICAL

- 2-1-1. Rating: 10 Amp,300 VAC
- 2-1-2. Dielectric strength: 2000 VAC Min. for 60 sec.
- 2-1-3. Insulation resistance: 100 MΩ Min. at 500 VDC

2.2. MECHANICAL AND ENVIRONMENTAL

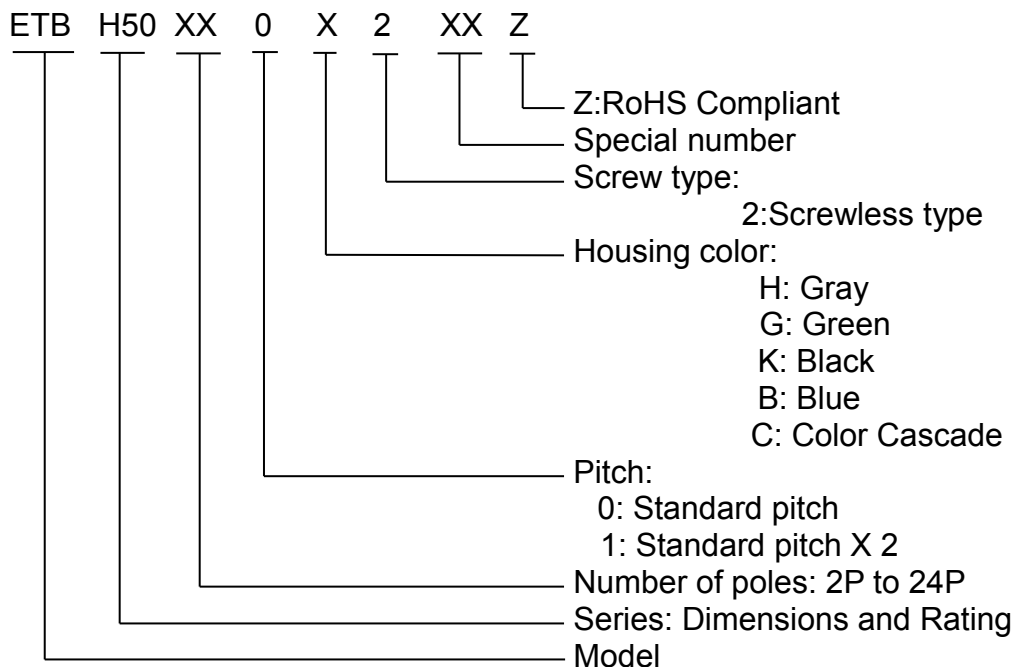
- 2-2-1. Operating temperature: -30°C to +110°C (includes temperature rise limit)
- 2-2-2. Wire range: 14AWG to 26AWG
- 2-2-3. Pullout test:
 - pullout force: 50N Min. / 14AWG (Solid)
 - pullout force: 8.9N Min. / 26AWG (Solid)
- 2-2-4. Pitch: 5.0 mm,10.0mm
- 2-2-5. Stripping length: 12 mm
- 2-2-6. No.of pole per Block: 2P to 24P
- 2-2-7. The maximum number of pole per block is not exceeding 24 pcs.
We suggest to divide block into two pieces if total number of pole per book is over 24 pcs.

3. MATERIALS:

- 3-1. Housing: Polyamide 66 (UL 94V-0) resin
- 3-2. End plate: Polyamide 66 (UL 94V-0) resin
- 3-3. Push Button: Polyamide 66 (UL 94V-0) resin
- 3-4. Terminal: Tin plated over Copper Alloy
- 3-5. Spring: Stainless Steel

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4. PART NUMBERING SYSTEM:



5. PACKING:

5-1. PACKING METHOD

5-1-1. Terminal blocks are packed into plastic bags and then packed into boxes.

5-1-2. Terminal blocks are packed into IC Tube as an inner packing unit, then ten IC Tube are bundled with rubber bands.

Length of IC Tube: 560 mm

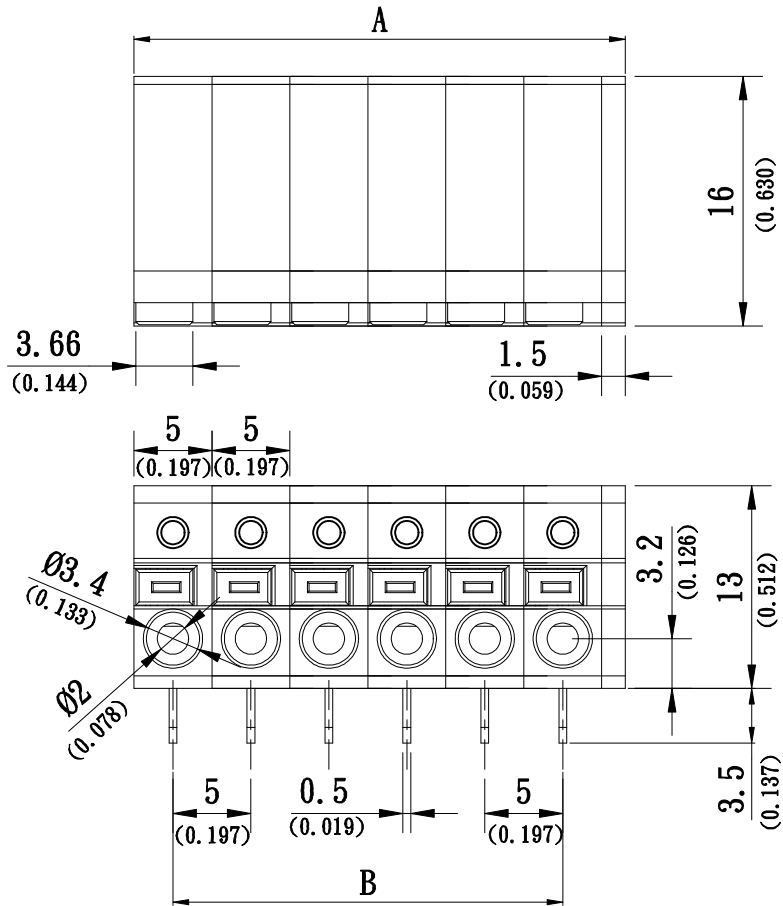
5-2. INFORMATION ON LABEL (stuck to each bundle of IC Tubes/each bag)

- | | |
|-----------------|------------------------|
| (1) DESCRIPTION | (7) DATE |
| (2) LOT NO. | (8) MANUFACTURERS NAME |
| (3) QUANTITY | (9) ELECTRICAL RATING |
| (4) TESTER NO. | (10) TEMPERATURE |
| (5) ECE MARK | (11) CONDUCTOR SIZE |
| (6) QC STAMP | |

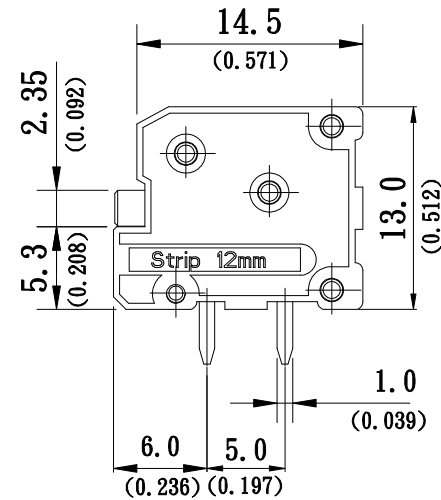
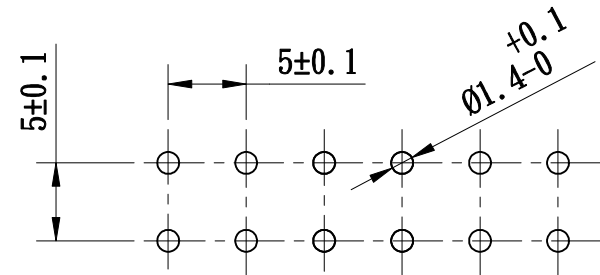
6. DRAWINGS:

Terminal block dimensions: see attached drawing

ETBH50XX0X2XXZ SERIES DIMENSIONS





P. C. B. LAOUT

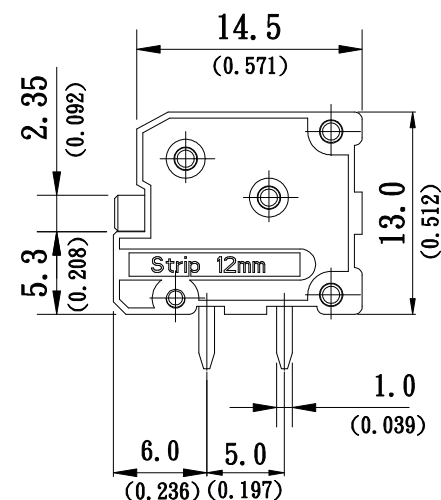
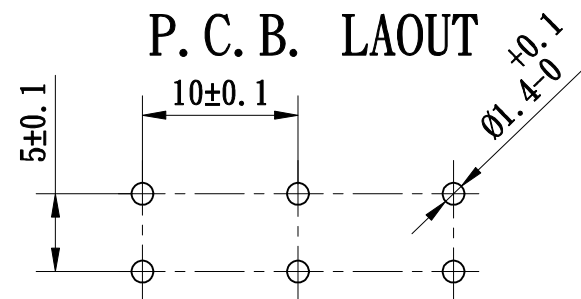
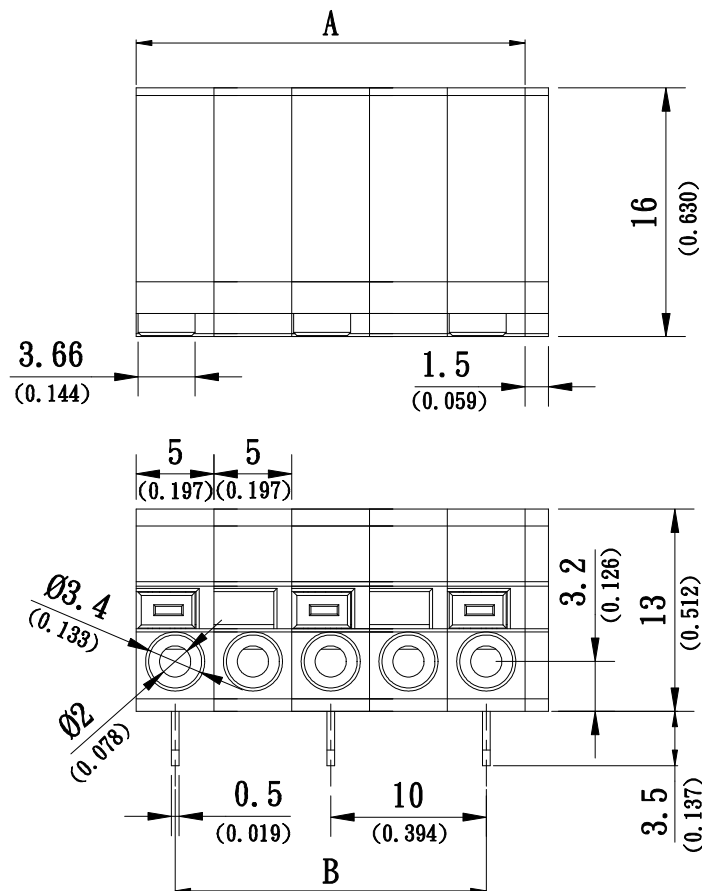


DIMENSIONS :

DIM.	Poles	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	A	11.5 (0.453)	16.5 (0.650)	21.5 (0.864)	26.5 (1.043)	31.5 (1.240)	36.5 (1.437)	41.5 (1.634)	46.5 (1.831)	51.5 (2.028)	56.5 (2.224)	61.5 (2.421)	66.5 (2.618)	71.5 (2.815)	76.5 (3.012)	81.5 (3.209)	86.5 (3.406)	91.5 (3.602)	96.5 (3.799)	101.5 (3.996)	106.5 (4.193)	111.5 (4.390)	116.5 (4.587)	121.5 (4.783)
B	5 (0.197)	10 (0.394)	15 (0.591)	20 (0.787)	25 (0.984)	30 (1.0181)	35 (1.378)	40 (1.575)	45 (1.772)	50 (1.969)	55 (2.165)	60 (2.362)	65 (2.559)	70 (2.756)	75 (2.953)	80 (3.150)	85 (3.349)	90 (3.546)	95 (3.743)	100 (3.94)	105 (4.137)	110 (4.334)	115 (4.531)	

				NORMAL TOLERANCE		 EXCEL CELL ELECTRONIC CO., LTD.				PART NUMBER	ETBH50XX0X2XXZ		
				RANGE	TOLERANCE								
				0-1	±0.1	CHECK	Gary Kuo 2019/12/31	DESIGN 王裕欣 2016/09/12	DRAWN 楊博宇 2019/12/31	UNIT	MM (INCH)	PART NAME	ETBH50
				1-4	±0.3					SCALE	2:1	TYPE	2P~24P
				4-16	±0.5					SIZE	A4	FILE NAME	ETBH50XX0X4XXZA. DWG
				16-63	±0.8								
				63-250	±1.0								
				X.	±5°								
				X. X	±2.5°					PROJECTION		EDITION	A
NO.	DETAILS	ALTERED BY	DATE										

ETBH50XX1X2XXZ SERIES DIMENSIONS



DIMENSIONS :

Dim. \ Poles	2	3	4	5	6	7	8	9	10	11	12
A	16.5 (0.65)	26.5 (1.043)	36.5 (1.437)	46.5 (1.831)	56.5 (2.224)	66.5 (2.618)	76.5 (3.012)	86.5 (3.406)	96.5 (3.799)	106.5 (4.193)	116.5 (4.587)
B	10 (0.394)	20 (0.787)	30 (1.181)	40 (1.575)	50 (1.969)	60 (2.362)	70 (2.756)	80 (3.150)	90 (3.546)	100 (3.94)	110 (4.334)

				NORMAL TOLERANCE							(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)	(D19)	(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)	(D32)	(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)	(D45)	(D46)	(D47)	(D48)	(D49)	(D50)	(D51)	(D52)	(D53)	(D54)	(D55)	(D56)	(D57)	(D58)	(D59)	(D60)	(D61)	(D62)	(D63)	(D64)	(D65)	(D66)	(D67)	(D68)	(D69)	(D70)	(D71)	(D72)	(D73)	(D74)	(D75)	(D76)	(D77)	(D78)	(D79)	(D80)	(D81)	(D82)	(D83)	(D84)	(D85)	(D86)	(D87)	(D88)	(D89)	(D90)	(D91)	(D92)	(D93)	(D94)	(D95)	(D96)	(D97)	(D98)	(D99)	(D100)	(D101)	(D102)	(D103)	(D104)	(D105)	(D106)	(D107)	(D108)	(D109)	(D110)	(D111)	(D112)	(D113)	(D114)	(D115)	(D116)	(D117)	(D118)	(D119)	(D120)	(D121)	(D122)	(D123)	(D124)	(D125)	(D126)	(D127)	(D128)	(D129)	(D130)	(D131)	(D132)	(D133)	(D134)	(D135)	(D136)	(D137)	(D138)	(D139)	(D140)	(D141)	(D142)	(D143)	(D144)	(D145)	(D146)	(D147)	(D148)	(D149)	(D150)	(D151)	(D152)	(D153)	(D154)	(D155)	(D156)	(D157)	(D158)	(D159)	(D160)	(D161)	(D162)	(D163)	(D164)	(D165)	(D166)	(D167)	(D168)	(D169)	(D170)	(D171)	(D172)	(D173)	(D174)	(D175)	(D176)	(D177)	(D178)	(D179)	(D180)	(D181)	(D182)	(D183)	(D184)	(D185)	(D186)	(D187)	(D188)	(D189)	(D190)	(D191)	(D192)	(D193)	(D194)	(D195)	(D196)	(D197)	(D198)	(D199)	(D200)	(D201)	(D202)	(D203)	(D204)	(D205)	(D206)	(D207)	(D208)	(D209)	(D210)	(D211)	(D212)	(D213)	(D214)	(D215)	(D216)	(D217)	(D218)	(D219)	(D220)	(D221)	(D222)	(D223)	(D224)	(D225)	(D226)	(D227)	(D228)	(D229)	(D230)	(D231)	(D232)	(D233)	(D234)	(D235)	(D236)	(D237)	(D238)	(D239)	(D240)	(D241)	(D242)	(D243)	(D244)	(D245)	(D246)	(D247)	(D248)	(D249)	(D250)	(D251)	(D252)	(D253)	(D254)	(D255)	(D256)	(D257)	(D258)	(D259)	(D260)	(D261)	(D262)	(D263)	(D264)	(D265)	(D266)	(D267)	(D268)	(D269)	(D270)	(D271)	(D272)	(D273)	(D274)	(D275)	(D276)	(D277)	(D278)	(D279)	(D280)	(D281)	(D282)	(D283)	(D284)	(D285)	(D286)	(D287)	(D288)	(D289)	(D290)	(D291)	(D292)	(D293)	(D294)	(D295)	(D296)	(D297)	(D298)	(D299)	(D300)	(D301)	(D302)	(D303)	(D304)	(D305)	(D306)	(D307)	(D308)	(D309)	(D310)	(D311)	(D312)	(D313)	(D314)	(D315)	(D316)	(D317)	(D318)	(D319)	(D320)	(D321)	(D322)	(D323)	(D324)	(D325)	(D326)	(D327)	(D328)	(D329)	(D330)	(D331)	(D332)	(D333)	(D334)	(D335)	(D336)	(D337)	(D338)	(D339)	(D340)	(D341)	(D342)	(D343)	(D344)	(D345)	(D346)	(D347)	(D348)	(D349)	(D350)	(D351)	(D352)	(D353)	(D354)	(D355)	(D356)	(D357)	(D358)	(D359)	(D360)	(D361)	(D362)	(D363)	(D364)	(D365)	(D366)	(D367)	(D368)	(D369)	(D370)	(D371)	(D372)	(D373)	(D374)	(D375)	(D376)	(D377)	(D378)	(D379)	(D380)	(D381)	(D382)	(D383)	(D384)	(D385)	(D386)	(D387)	(D388)	(D389)	(D390)	(D391)	(D392)	(D393)	(D394)	(D395)	(D396)	(D397)	(D398)	(D399)	(D400)	(D401)	(D402)	(D403)	(D404)	(D405)	(D406)	(D407)	(D408)	(D409)	(D410)	(D411)	(D412)	(D413)	(D414)	(D415)	(D416)	(D417)	(D418)	(D419)	(D420)	(D421)	(D422)	(D423)	(D424)	(D425)	(D426)	(D427)	(D428)	(D429)	(D430)	(D431)	(D432)	(D433)	(D434)	(D435)	(D436)	(D437)	(D438)	(D439)	(D440)	(D441)	(D442)	(D443)	(D444)	(D445)	(D446)	(D447)	(D448)	(D449)	(D450)	(D451)	(D452)	(D453)	(D454)	(D455)	(D456)	(D457)	(D458)	(D459)	(D460)	(D461)	(D462)	(D463)	(D464)	(D465)	(D466)	(D467)	(D468)	(D469)	(D470)	(D471)	(D472)	(D473)	(D474)	(D475)	(D476)	(D477)	(D478)	(D479)	(D480)	(D481)	(D482)	(D483)	(D484)	(D485)	(D486)	(D487)	(D488)	(D489)	(D490)	(D491)	(D492)	(D493)	(D494)	(D495)	(D496)	(D497)	(D498)	(D499)	(D500)	(D501)	(D502)	(D503)	(D504)	(D505)	(D506)	(D507)	(D508)	(D509)	(D510)	(D511)	(D512)	(D513)	(D514)	(D515)	(D516)	(D517)	(D518)	(D519)	(D520)	(D521)	(D522)	(D523)	(D524)	(D525)	(D526)	(D527)	(D528)	(D529)	(D530)	(D531)	(D532)	(D533)	(D534)	(D535)	(D536)	(D537)	(D538)	(D539)	(D540)	(D541)	(D542)	(D543)	(D544)	(D545)	(D546)	(D547)	(D548)	(D549)	(D550)	(D551)	(D552)	(D553)	(D554)	(D555)	(D556)	(D557)	(D558)	(D559)	(D560)	(D561)	(D562)	(D563)	(D564)	(D565)	(D566)	(D567)	(D568)	(D569)	(D570)	(D571)	(D572)	(D573)	(D574)	(D575)	(D576)	(D577)	(D578)	(D579)	(D580)	(D581)	(D582)	(D583)	(D584)	(D585)	(D586)	(D587)	(D588)	(D589)	(D590)	(D591)	(D592)	(D593)	(D594)	(D595)	(D596)	(D597)	(D598)	(D599)	(D600)	(D601)	(D602)	(D603)	(D604)	(D605)	(D606)	(D607)	(D608)	(D609)	(D610)	(D611)	(D612)	(D613)	(D614)	(D615)	(D616)	(D617)	(D618)	(D619)	(D620)	(D621)	(D622)	(D623)	(D624)	(D625)	(D626)	(D627)	(D628)	(D629)	(D630)	(D631)	(D632)	(D633)	(D634)	(D635)	(D636)	(D637)	(D638)	(D639)	(D640)	(D641)	(D642)	(D643)	(D644)	(D645)	(D646)	(D647)	(D648)	(D649)	(D650)	(D651)	(D652)	(D653)	(D654)	(D655)	(D656)	(D657)	(D658)	(D659)	(D660)	(D661)	(D662)	(D663)	(D664)	(D665)	(D666)	(D667)	(D668)	(D669)	(D670)	(D671)	(D672)	(D673)	(D674)	(D675)	(D676)	(D677)	(D678)	(D679)	(D680)	(D681)	(D682)	(D683)	(D684)	(D685)	(D686)	(D687)	(D688)	(D689)	(D690)	(D691)	(D692)	(D693)	(D694)	(D695)	(D696)	(D697)	(D698)	(D699)	(D700)	(D701)	(D702)	(D703)	(D704)	(D705)	(D706)	(D707)	(D708)	(D709)	(D710)	(D711)	(D712)	(D713)	(D714)	(D715)	(D716)	(D717)	(D718)	(D719)	(D720)	(D721)	(D722)	(D723)	(D724)	(D725)	(D726)	(D727)	(D728)	(D729)	(D730)	(D731)	(D732)	(D733)	(D734)	(D735)	(D736)	(D737)	(D738)	(D739)	(D740)	(D741)	(D742)	(D743)	(D744)	(D745)	(D746)	(D747)	(D748)	(D749)	(D750)	(D751)	(D752)	(D753)	(D754)	(D755)	(D756)	(D757)	(D758)	(D759)	(D760)	(D761)	(D762)	(D763)	(D764)	(D765)	(D766)	(D767)	(D768)	(D769)	(D770)	(D771)	(D772)	(D773)	(D774)	(D775)	(D776)	(D777)	(D778)	(D779)	(D780)	(D781)	(D782)	(D783)	(D784)	(D785)	(D786)	(D787)	(D788)	(D789)	(D790)	(D791)	(D792)	(D793)	(D794)	(D795)	(D796)	(D797)	(D798)	(D799)	(D800)	(D801)	(D802)	(D803)	(D804)	(D805)	(D806)	(D807)	(D808)	(D809)	(D810)	(D811)	(D812)	(D813)	(D814)	(D815)	(D816)	(D817)	(D818)	(D819)	(D820)	(D821)	(D822)	(D823)	(D824)	(D825)	(D826)	(D827)	(D828)	(D829)	(D830)	(D831)	(D832)	(D833)	(D834)	(D835)	(D836)	(D837)	(D838)	(D839)	(D840)	(D841)	(D842)	(D843)	(D844)	(D845)	(D846)	(D847)	(D848)	(D849)	(D850)	(D851)	(D852)	(D853)	(D854)	(D855)	(D856)	(D857)	(D858)	(D859)	(D860)	(D861)	(D862)	(D863)	(D864)	(D865)	(D866)	(D867)	(D868)	(D869)	(D870)	(D871)	(D872)	(D873)	(D874)	(D875)	(D876)	(D877)	(D878)	(D879)	(D880)	(D881)	(D882)	(D883)	(D884)	(D885)	(D886)	(D887)	(D888)	(D889)	(D890)	(D891)	(D892)	(D893)	(D894)	(D895)	(D896)	(D897)	(D898)	(D899)	(D900)	(D901)	(D902)	(D903)	(D904)	(D905)	(D906)	(D907)	(D908)	(D909)	(D910)	(D911)	(D912)	(D913)	(D914)	(D915)	(D916)	(D917)	(D918)	(D919)	(D920)	(D921)	(D922)	(D923)	(D924)	(D925)	(D926)	(D927)	(D928)	(D929)	(D930)	(D931)	(D932)	(D933)	(D934)	(D935)	(D936)	(D937)	(D938)	(D939)	(D940)	(D941)	(D942)	(D943)	(D944)	(D945)	(D946)	(D947)	(D948)	(D949)	(D950)	(D951)	(D952)	(D953)	(D954)	(D955)	(D956)	(D957)	(D958)	(D959)	(D960)	(D961)	(D962)	(D963)	(D964)	(D965)	(D966)	(D967)	(D968)	(D969)	(D970)	(D971)	(D972)	(D973)	(D974)	(D975)	(D976)	(D977)	(D978)	(D979)	(D980)	(D981)	(D982)	(D983)	(D984)	(D985)	(D986)	(D987)	(D988)	(D989)	(D990)	(D991)	(D992)	(D993)	(D994)	(D995)	(D996)	(D997)	(D998)	(D999)	(D1000)	(D1001)	(D1002)	(D1003)	(D1004)	(D1005)	(D1006)	(D1007)	(D1008)	(D1009)	(D1010)	(D1011)	(D1012)	(D1013)	(D1014)	(D1015)	(D1016)	(D1017)	(D1018)	(D1019)	(D1020)	(D1021)	(D1022)	(D1023)	(D1024)	(D1025)	(D1026)	(D1027)	(D1028)	(D1029)	(D1030)	(D1031)	(D1032)	(D1033)	(D1034)	(D1035)	(D1036)	(D1037)	(D1038)	(D1039)	(D1040)	(D1041)	(D1042)	(D1043)	(D1044)	(D1045)	(D1046)	(D1047)	(D1048)	(D1049)	(D1050)	(D1051)	(D1052)	(D1053)	(D1054)	(D1055)	(D1056)	(D1057)	(D1058)	(D1059)	(D1060)	(D1061)	(D1062)	(D1063)	(D1064)	(D1065)	(D1066)	(D1067)	(D1068)	(D1069)	(D1070)	(D1071)	(D1072)	(D1073)	(D1074)	(D1075)	(D1076)	(D1077)	(D1078)	(D1079)	(D1080)	(D1081)	(D1082)	(D1083)	(D1084)	(D1085)	(D1086)	(D1087)	(D1088)	(D1089)	(D1090)	(D1091)	(D1092)	(D1093)	(D1094)	(D1095)	(D1096)	(D1097)	(D1098)	(D1099)	(D1100)	(D1101)	(D1102)	(D1103)	(D1104)	(D1105)	(D1106)	(D1107)	(D1108)	(D1109)	(D1110)	(D1111)	(D1112)	(D1113)	(D1114)	(D1115)	(D1116)	(D1117)	(D1118)	(D1119)	(D1120)	(D1121)	(D1122)	(D1123)	(D1124)	(D1125)	(D1126)	(D1127)	(D1128)	(D1129)	(D1130)	(D1131)	(D1132)	(D1133)	(D1134)	(D1135)	(D1136)	(D1137)	(D1138)	(D1139)	(D1140)	(D1141)	(D1142)	(D1143)	(D1144)	(D1145)	(D1146)	(D1147)	(D1148)	(D1149)	(D1150)	(D1151)	(D1152)	(D1153)	(D1154)	(D1155)	(D1156)	(D1157)	(D1158)	(D1159)	(D1160)	(D1161)	(D1162)	(D1163)	(D1164)	(D1165)	(D1166)	(D1167)	(D1168)	(D1169)	(D1170)	(D1171)	(D1172)	(D1173)	(D1174)	(D1175)	(D1176)	(D1177)	(D1178)	(D1179)	(D1180)	(D1181)	(D1182)	(D1183)	(D1184)	(D1185)	(D1186)	(D1187)	(D1188)	(D1189)	(D1190)	(D1191)	(D1192)	(D1193)	(D1194)	(D1195)	(D1196)	(D1197)	(D1198)	(D1199)	(D1200)	(D1201)	(D1202)	(D1203)	(D1204)	(D1205)	(D1206)	(D1207)	(D1208)	(D1209)	(D1210)	(D1211)	(D1212)	(D1213)	(D1214)	(D1215)	(D1216)	(D1217)	(D1218)	(D1219)	(D1220)	(D1221)	(D1222)	(D1223)	(D1224)	(D1225)	(D1226)	(D1227)	(D1228)	(D1229)	(D1230)	(D1231)	(D1232)	(D1233)	(D1234)	(D1235)	(D1236)	(D1237)	(D1238)	(D1239)	(D1240)	(D1241)	(D1242)	(D1243)	(D1244)	(D1245)	(D1246)	(D1247)	(D1248)	(D1249)	(D1250)	(D1251)	(D1252)	(D1253)	(D1254)	(D1255)	(D1256)	(D1257)	(D1258)	(D1259)	(D1260)	(D1261)	(D1262)	(D1263)	(D1264)	(D1265)	(D1266)	(D1267)	(D1268)	(D1269)	(D1270)	(D1271)	(D1272)	(D1273)	(D1274)	(D1275)	(D1276)	(D1277)	(D1278)	(D1279)	(D1280)	(D1281)	(D1282)	(D1283)	(D1284)	(D1285)	(D1286)	(D1287)	(D1288)	(D1289)	(D1290)	(D1291)	(D1292)	(D1293)	(D1294)	(D1295)	(D1296)	(D1297)	(D1298)	(D1299)	(D1300)	(D1301)	(D1302)	(D1303)	(D1304)	(D1305)	(D1306)	(D1307)	(D1308)	(D1309)	(D1310)	(D1311)	(D1312)	(D1313)	(D1314)	(D1315)	(D1316)	(D1317)	(D1318)	(D1319)	(D1320)	(D1321)	(D1322)	(D1323)	(D1324)	(D1325)	(D1326)	(D1327)	(D1328)	(D1329)	(D1330)	(D1331)	(D1332)	(D1333)	(D1334)	(D1335)	(D1336)	(D1337)	(D1338)	(D1339)	(D1340)	(D1341)	(D1342)	(D1343)	(D1344)	(D1345)	(D1346)	(D1347)	(D1348)	(D1349)	(D1350)	(D1351)	(D13
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