

|                     |  |                     |   |   |   |   |   |                     |  |                     |       |
|---------------------|--|---------------------|---|---|---|---|---|---------------------|--|---------------------|-------|
| 8                   |  | 7                   | 6 | 5 | 4 | 3 | 2 | 1                   |  |                     |       |
| 技术参数 (DIN EN 61984) |  | REV                 |   |   |   |   |   | REVISIONS           |  |                     |       |
| 插针数                 |  | ECN                 |   |   |   |   |   | DESCRIPTION         |  | DATE                | DRAFT |
| 额定电流                |  | 信号区: 10A            |   |   |   |   |   | 信号区: 830V           |  | 信号区: 8kV            |       |
| 额定电压                |  | 信号区: 830V           |   |   |   |   |   | 信号区: 8kV            |  | 信号区: 8kV            |       |
| 额定脉冲电压              |  | 信号区: 8kV            |   |   |   |   |   | 信号区: 8kV            |  | 信号区: 8kV            |       |
| 依据UL的额定电压           |  | 600V                |   |   |   |   |   | 600V                |  | 600V                |       |
| 污染等级                |  | 3                   |   |   |   |   |   | 3                   |  | 3                   |       |
| 绝缘抗组                |  | ≥10 <sup>10</sup> Ω |   |   |   |   |   | ≥10 <sup>10</sup> Ω |  | ≥10 <sup>10</sup> Ω |       |
| 材料                  |  | 聚碳酸酯                |   |   |   |   |   | 聚碳酸酯                |  | 聚碳酸酯                |       |
| 温度范围                |  | -40℃~+125℃          |   |   |   |   |   | -40℃~+125℃          |  | -40℃~+125℃          |       |
| 阻燃等级                |  | UL94-V0             |   |   |   |   |   | UL94-V0             |  | UL94-V0             |       |
| 可插拔次数               |  | ≥500                |   |   |   |   |   | ≥500                |  | ≥500                |       |
| 连接方式                |  | 冷压连接                |   |   |   |   |   | 冷压连接                |  | 冷压连接                |       |
| 8                   |  | 7                   | 6 | 5 | 4 | 3 | 2 | 1                   |  |                     |       |
| A                   |  | B                   |   |   |   |   |   | C                   |  | D                   |       |
| B                   |  | C                   |   |   |   |   |   | D                   |  | E                   |       |
| C                   |  | D                   |   |   |   |   |   | E                   |  | F                   |       |
| D                   |  | E                   |   |   |   |   |   | F                   |  | G                   |       |
| E                   |  | F                   |   |   |   |   |   | G                   |  | H                   |       |
| F                   |  | G                   |   |   |   |   |   | H                   |  | I                   |       |
| G                   |  | H                   |   |   |   |   |   | I                   |  | J                   |       |
| H                   |  | I                   |   |   |   |   |   | J                   |  | K                   |       |
| I                   |  | J                   |   |   |   |   |   | K                   |  | L                   |       |
| J                   |  | K                   |   |   |   |   |   | L                   |  | M                   |       |
| K                   |  | L                   |   |   |   |   |   | M                   |  | N                   |       |
| L                   |  | M                   |   |   |   |   |   | N                   |  | O                   |       |
| M                   |  | N                   |   |   |   |   |   | O                   |  | P                   |       |
| N                   |  | O                   |   |   |   |   |   | P                   |  | Q                   |       |
| O                   |  | P                   |   |   |   |   |   | Q                   |  | R                   |       |
| P                   |  | Q                   |   |   |   |   |   | R                   |  | S                   |       |
| Q                   |  | R                   |   |   |   |   |   | S                   |  | T                   |       |
| R                   |  | S                   |   |   |   |   |   | T                   |  | U                   |       |
| S                   |  | T                   |   |   |   |   |   | U                   |  | V                   |       |
| T                   |  | U                   |   |   |   |   |   | V                   |  | W                   |       |
| U                   |  | V                   |   |   |   |   |   | W                   |  | X                   |       |
| V                   |  | W                   |   |   |   |   |   | X                   |  | Y                   |       |
| W                   |  | X                   |   |   |   |   |   | Y                   |  | Z                   |       |
| X                   |  | Y                   |   |   |   |   |   | Z                   |  | AA                  |       |
| Y                   |  | Z                   |   |   |   |   |   | AA                  |  | AB                  |       |
| Z                   |  | AA                  |   |   |   |   |   | AB                  |  | AC                  |       |
| AA                  |  | AB                  |   |   |   |   |   | AC                  |  | AD                  |       |
| AB                  |  | AC                  |   |   |   |   |   | AD                  |  | AE                  |       |
| AC                  |  | AD                  |   |   |   |   |   | AE                  |  | AF                  |       |
| AD                  |  | AE                  |   |   |   |   |   | AF                  |  | AG                  |       |
| AE                  |  | AF                  |   |   |   |   |   | AG                  |  | AH                  |       |
| AF                  |  | AG                  |   |   |   |   |   | AH                  |  | AI                  |       |
| AG                  |  | AH                  |   |   |   |   |   | AI                  |  | AJ                  |       |
| AH                  |  | AI                  |   |   |   |   |   | AJ                  |  | AK                  |       |
| AI                  |  | AJ                  |   |   |   |   |   | AK                  |  | AL                  |       |
| AJ                  |  | AK                  |   |   |   |   |   | AL                  |  | AM                  |       |
| AK                  |  | AL                  |   |   |   |   |   | AM                  |  | AN                  |       |
| AL                  |  | AM                  |   |   |   |   |   | AN                  |  | AO                  |       |
| AM                  |  | AN                  |   |   |   |   |   | AO                  |  | AP                  |       |
| AN                  |  | AO                  |   |   |   |   |   | AP                  |  | AQ                  |       |
| AO                  |  | AP                  |   |   |   |   |   | AQ                  |  | AR                  |       |
| AP                  |  | AQ                  |   |   |   |   |   | AR                  |  | AS                  |       |
| AQ                  |  | AR                  |   |   |   |   |   | AS                  |  | AT                  |       |
| AR                  |  | AS                  |   |   |   |   |   | AT                  |  | AU                  |       |
| AS                  |  | AT                  |   |   |   |   |   | AU                  |  | AV                  |       |
| AT                  |  | AU                  |   |   |   |   |   | AV                  |  | AW                  |       |
| AU                  |  | AV                  |   |   |   |   |   | AW                  |  | AX                  |       |
| AV                  |  | AW                  |   |   |   |   |   | AX                  |  | AY                  |       |
| AW                  |  | AX                  |   |   |   |   |   | AY                  |  | AZ                  |       |
| AX                  |  | AY                  |   |   |   |   |   | AZ                  |  | BA                  |       |
| AY                  |  | AZ                  |   |   |   |   |   | BA                  |  | BB                  |       |
| AZ                  |  | BA                  |   |   |   |   |   | BB                  |  | BC                  |       |
| BA                  |  | BB                  |   |   |   |   |   | BC                  |  | BD                  |       |
| BB                  |  | BC                  |   |   |   |   |   | BD                  |  | BE                  |       |
| BC                  |  | BD                  |   |   |   |   |   | BE                  |  | BF                  |       |
| BD                  |  | BE                  |   |   |   |   |   | BF                  |  | BG                  |       |
| BE                  |  | BF                  |   |   |   |   |   | BG                  |  | BH                  |       |
| BF                  |  | BG                  |   |   |   |   |   | BH                  |  | BI                  |       |
| BG                  |  | BH                  |   |   |   |   |   | BI                  |  | BJ                  |       |
| BH                  |  | BI                  |   |   |   |   |   | BJ                  |  | BK                  |       |
| BI                  |  | BJ                  |   |   |   |   |   | BK                  |  | BL                  |       |
| BJ                  |  | BK                  |   |   |   |   |   | BL                  |  | BM                  |       |
| BK                  |  | BL                  |   |   |   |   |   | BM                  |  | BN                  |       |
| BL                  |  | BM                  |   |   |   |   |   | BN                  |  | BO                  |       |
| BM                  |  | BN                  |   |   |   |   |   | BO                  |  | BP                  |       |
| BN                  |  | BO                  |   |   |   |   |   | BP                  |  | BQ                  |       |
| BO                  |  | BP                  |   |   |   |   |   | BQ                  |  | BR                  |       |
| BP                  |  | BQ                  |   |   |   |   |   | BR                  |  | BS                  |       |
| BQ                  |  | BR                  |   |   |   |   |   | BS                  |  | BT                  |       |
| BR                  |  | BS                  |   |   |   |   |   | BT                  |  | BU                  |       |
| BS                  |  | BT                  |   |   |   |   |   | BU                  |  | BV                  |       |
| BT                  |  | BU                  |   |   |   |   |   | BV                  |  | BW                  |       |
| BU                  |  | BV                  |   |   |   |   |   | BW                  |  | BX                  |       |
| BV                  |  | BW                  |   |   |   |   |   | BX                  |  | BY                  |       |
| BW                  |  | BX                  |   |   |   |   |   | BY                  |  | BZ                  |       |
| BX                  |  | BY                  |   |   |   |   |   | BZ                  |  | CA                  |       |
| BY                  |  | BZ                  |   |   |   |   |   | CA                  |  | CB                  |       |
| BZ                  |  | CA                  |   |   |   |   |   | CB                  |  | CC                  |       |
| CA                  |  | CB                  |   |   |   |   |   | CC                  |  | CD                  |       |
| CB                  |  | CC                  |   |   |   |   |   | CD                  |  | CE                  |       |
| CC                  |  | CD                  |   |   |   |   |   | CE                  |  | CF                  |       |
| CD                  |  | CE                  |   |   |   |   |   | CF                  |  | CG                  |       |
| CE                  |  | CF                  |   |   |   |   |   | CG                  |  | CH                  |       |
| CF                  |  | CG                  |   |   |   |   |   | CH                  |  | CI                  |       |
| CG                  |  | CH                  |   |   |   |   |   | CI                  |  | CJ                  |       |
| CH                  |  | CI                  |   |   |   |   |   | CJ                  |  | CK                  |       |
| CI                  |  | CJ                  |   |   |   |   |   | CK                  |  | CL                  |       |
| CJ                  |  | CK                  |   |   |   |   |   | CL                  |  | CM                  |       |
| CK                  |  | CL                  |   |   |   |   |   | CM                  |  | CN                  |       |
| CL                  |  | CM                  |   |   |   |   |   | CN                  |  | CO                  |       |
| CM                  |  | CN                  |   |   |   |   |   | CO                  |  | CP                  |       |
| CN                  |  | CO                  |   |   |   |   |   | CP                  |  | CQ                  |       |
| CO                  |  | CP                  |   |   |   |   |   | CQ                  |  | CR                  |       |
| CP                  |  | CQ                  |   |   |   |   |   | CR                  |  | CS                  |       |
| CQ                  |  | CR                  |   |   |   |   |   | CS                  |  | CT                  |       |
| CR                  |  | CS                  |   |   |   |   |   | CT                  |  | CU                  |       |
| CT                  |  | CU                  |   |   |   |   |   | CV                  |  | CW                  |       |
| CU                  |  | CV                  |   |   |   |   |   | CW                  |  | CX                  |       |
| CV                  |  | CW                  |   |   |   |   |   | CX                  |  | CY                  |       |
| CW                  |  | CX                  |   |   |   |   |   | CY                  |  | CZ                  |       |
| CX                  |  | CY                  |   |   |   |   |   | CZ                  |  | DA                  |       |
| CY                  |  | CZ                  |   |   |   |   |   | DA                  |  | DB                  |       |
| CZ                  |  | DA                  |   |   |   |   |   | DB                  |  | DC                  |       |
| DA                  |  | DB                  |   |   |   |   |   | DC                  |  | DD                  |       |
| DB                  |  | DC                  |   |   |   |   |   | DD                  |  | DE                  |       |
| DC                  |  | DD                  |   |   |   |   |   | DE                  |  | DF                  |       |
| DD                  |  | DE                  |   |   |   |   |   | DF                  |  | DG                  |       |
| DE                  |  | DF                  |   |   |   |   |   | DG                  |  | DH                  |       |
| DF                  |  | DG                  |   |   |   |   |   | DH                  |  | DI                  |       |
| DG                  |  | DH                  |   |   |   |   |   | DI                  |  | DJ                  |       |
| DH                  |  | DI                  |   |   |   |   |   | DJ                  |  | DK                  |       |
| DI                  |  | DJ                  |   |   |   |   |   | DK                  |  | DL                  |       |
| DJ                  |  | DK                  |   |   |   |   |   | DL                  |  | DM                  |       |
| DK                  |  | DL                  |   |   |   |   |   | DM                  |  | DN                  |       |
| DL                  |  | DM                  |   |   |   |   |   | DN                  |  | DO                  |       |
| DM                  |  | DN                  |   |   |   |   |   | DO                  |  | DP                  |       |
| DN                  |  | DO                  |   |   |   |   |   | DP                  |  | DQ                  |       |
| DO                  |  | DP                  |   |   |   |   |   | DQ                  |  | DR                  |       |
| DP                  |  | DQ                  |   |   |   |   |   | DR                  |  | DS                  |       |
| DQ                  |  | DR                  |   |   |   |   |   | DS                  |  | DT                  |       |
| DR                  |  | DS                  |   |   |   |   |   | DT                  |  | DU                  |       |
| DS                  |  | DT                  |   |   |   |   |   | DU                  |  | DV                  |       |
| DT                  |  | DU                  |   |   |   |   |   | DV                  |  | DW                  |       |
| DU                  |  | DV                  |   |   |   |   |   | DW                  |  | DX                  |       |
| DV                  |  | DW                  |   |   |   |   |   | DX                  |  | DY                  |       |
| DW                  |  | DX                  |   |   |   |   |   | DY                  |  | DZ                  |       |
| DX                  |  | DY                  |   |   |   |   |   | DZ                  |  | EA                  |       |
| DY                  |  | DZ                  |   |   |   |   |   | EA                  |  | EB                  |       |
| DZ                  |  | EA                  |   |   |   |   |   | EB                  |  | EC                  |       |
| EA                  |  | EB                  |   |   |   |   |   | EC                  |  | ED                  |       |
| EB                  |  | EC                  |   |   |   |   |   | ED                  |  | EE                  |       |
| EC                  |  | ED                  |   |   |   |   |   | EE                  |  | EF                  |       |
| ED                  |  | EE                  |   |   |   |   |   | EF                  |  | EG                  |       |
| EE                  |  | EF                  |   |   |   |   |   | EG                  |  | EH                  |       |
| EF                  |  | EG                  |   |   |   |   |   | EH                  |  | EI                  |       |
| EG                  |  | EH                  |   |   |   |   |   | EI                  |  | EJ                  |       |
| EH                  |  | EI                  |   |   |   |   |   | EJ                  |  | EK                  |       |
| EI                  |  | EJ                  |   |   |   |   |   | EK                  |  | EL                  |       |
| EJ                  |  | EK                  |   |   |   |   |   | EL                  |  | EM                  |       |
| EK                  |  | EL                  |   |   |   |   |   | EM                  |  | EN                  |       |
| EL                  |  | EM                  |   |   |   |   |   | EN                  |  | EO                  |       |
| EM                  |  | EN                  |   |   |   |   |   | EO                  |  | EP                  |       |
| EN                  |  | EO                  |   |   |   |   |   | EP                  |  | EQ                  |       |
| EO                  |  | EP                  |   |   |   |   |   | EQ                  |  | ER                  |       |
| EP                  |  | EQ                  |   |   |   |   |   | ER                  |  | ES                  |       |
| EQ                  |  | ER                  |   |   |   |   |   | ES                  |  | ET                  |       |
| ER                  |  | ES                  |   |   |   |   |   | ET                  |  | EU                  |       |
| ES                  |  | ET                  |   |   |   |   |   | EU                  |  | EV                  |       |
| ET                  |  | EU                  |   |   |   |   |   | EV                  |  | EW                  |       |
| EU                  |  | EV                  |   |   |   |   |   | EW                  |  | EX                  |       |
| EV                  |  | EW                  |   |   |   |   |   | EX                  |  | EY                  |       |
| EW                  |  | EX                  |   |   |   |   |   | EY                  |  | EZ                  |       |
| EX                  |  | EY                  |   |   |   |   |   | EZ                  |  | FA                  |       |
| EY                  |  | EZ                  |   |   |   |   |   | FA                  |  | FB                  |       |
| EZ                  |  | FA                  |   |   |   |   |   | FB                  |  | FC                  |       |
| FA                  |  | FB                  |   |   |   |   |   | FC                  |  | FD                  |       |
| FB                  |  | FC                  |   |   |   |   |   | FD                  |  | FE                  |       |
| FC                  |  | FD                  |   |   |   |   |   | FE                  |  | FF                  |       |
| FD                  |  | FE                  |   |   |   |   |   | FF                  |  | FG                  |       |
| FE                  |  | FF                  |   |   |   |   |   | FG                  |  | FH                  |       |
| FF                  |  | FG                  |   |   |   |   |   | FH                  |  | FI                  |       |
| FG                  |  | FH                  |   |   |   |   |   | FI                  |  | FJ                  |       |
| FH                  |  | FI                  |   |   |   |   |   | FJ                  |  | FK                  |       |
| FI                  |  | FJ                  |   |   |   |   |   | FK                  |  | FL                  |       |
| FJ                  |  | FK                  |   |   |   |   |   | FL                  |  | FM                  |       |
| FK                  |  | FL                  |   |   |   |   |   | FM                  |  | FN                  |       |
| FL                  |  | FM                  |   |   |   |   |   | FN                  |  | FO                  |       |
| FM                  |  | FN                  |   |   |   |   |   | FO                  |  | FP                  |       |
| FN                  |  | FO                  |   |   |   |   |   | FP                  |  | FQ                  |       |
| FO                  |  | FP                  |   |   |   |   |   | FQ                  |  | FR                  |       |
| FP                  |  | FQ                  |   |   |   |   |   | FR                  |  | FS                  |       |
| FQ                  |  | FR                  |   |   |   |   |   | FS                  |  | FT                  |       |
| FR                  |  | FS                  |   |   |   |   |   | FT                  |  | FU                  |       |
| FS                  |  | FT                  |   |   |   |   |   | FU                  |  | FV                  |       |
| FT                  |  | FU                  |   |   |   |   |   | FV                  |  | FW                  |       |
| FU                  |  | FV                  |   |   |   |   |   | FW                  |  | FX                  |       |
| FV                  |  | FW                  |   |   |   |   |   | FX                  |  | FY                  |       |
| FW                  |  | FX                  |   |   |   |   |   | FY                  |  | FZ                  |       |
| FX                  |  | FY                  |   |   |   |   |   | FZ                  |  | GA                  |       |
| FY                  |  | FZ                  |   |   |   |   |   | GA                  |  | GB                  |       |
| FZ                  |  | GA                  |   |   |   |   |   | GB                  |  | GC                  |       |
| GA                  |  | GB                  |   |   |   |   |   | GC                  |  | GD                  |       |
| GB                  |  | GC                  |   |   |   |   |   | GD                  |  | GE                  |       |
| GC                  |  | GD                  |   |   |   |   |   | GE                  |  | GF                  |       |
| GD                  |  | GE                  |   |   |   |   |   | GF                  |  | GG                  |       |
| GE                  |  | GF                  |   |   |   |   |   | GG                  |  | GH                  |       |
| GF                  |  | GG                  |   |   |   |   |   | GH                  |  | GI                  |       |
| GG                  |  | GH                  |   |   |   |   |   | GI                  |  | GJ                  |       |
| GH                  |  | GI                  |   |   |   |   |   | GJ                  |  | GK                  |       |
| GI                  |  | GJ                  |   |   |   |   |   | GK                  |  | GL                  |       |
| GJ                  |  | GK                  |   |   |   |   |   | GL                  |  | GM                  |       |
| GK                  |  | GL                  |   |   |   |   |   | GM                  |  | GN                  |       |
| GL                  |  | GM                  |   |   |   |   |   | GN                  |  | GO                  |       |
| GM                  |  | GN                  |   |   |   |   |   | GO                  |  | GP                  |       |
| GN                  |  | GO                  |   |   |   |   |   | GP                  |  | GQ                  |       |
| GO                  |  | GP                  |   |   |   |   |   | GQ                  |  | GR                  |       |
| GP                  |  | GQ                  |   |   |   |   |   | GR                  |  | GS                  |       |
| GQ                  |  | GR                  |   |   |   |   |   | GS                  |  | GT                  |       |
| GR                  |  | GS                  |   |   |   |   |   | GT                  |  | GU                  |       |
| GS                  |  | GT                  |   |   |   |   |   | GU                  |  | GV                  |       |
| GT                  |  | GU                  |   |   |   |   |   | GV                  |  | GW                  |       |
| GU                  |  | GV                  |   |   |   |   |   | GW                  |  | GX                  |       |
| GV                  |  | GW                  |   |   |   |   |   | GX                  |  | GY                  |       |
| GW                  |  | GX                  |   |   |   |   |   | GY                  |  | GZ                  |       |
| GX                  |  | GY                  |   |   |   |   |   | GZ                  |  | HA                  |       |
| GY                  |  | GZ                  |   |   |   |   |   | HA                  |  | HB                  |       |
| GZ                  |  | HA                  |   |   |   |   |   | HB                  |  | HC                  |       |
| HA                  |  | HB                  |   |   |   |   |   | HC                  |  | HD                  |       |
| HB                  |  | HC                  |   |   |   |   |   | HD                  |  | HE                  |       |
| HC                  |  | HD                  |   |   |   |   |   | HE                  |  | HF                  |       |
| HD                  |  | HE                  |   |   |   |   |   | HF                  |  | HG                  |       |
| HE                  |  | HF                  |   |   |   |   |   | HG                  |  | HH                  |       |
| HF                  |  | HG                  |   |   |   |   |   | HH                  |  | HI                  |       |
| HG                  |  | HH                  |   |   |   |   |   | HI                  |  | HJ                  |       |
| HH                  |  | HI                  |   |   |   |   |   | HJ                  |  | HK                  |       |
| HI                  |  | HJ                  |   |   |   |   |   | HK                  |  | HL                  |       |
| HJ                  |  | HK                  |   |   |   |   |   | HL                  |  | HM                  |       |
| HK                  |  | HL                  |   |   |   |   |   | HM                  |  | HN                  |       |
| HL                  |  | HM                  |   |   |   |   |   | HN                  |  | HO                  |       |
| HM                  |  | HN                  |   |   |   |   |   | HO                  |  | HP                  |       |
| HN                  |  | HO                  |   |   |   |   |   | HP                  |  | HQ                  |       |
| HO                  |  | HP                  |   |   |   |   |   | HQ                  |  | HR                  |       |
| HP                  |  | HQ                  |   |   |   |   |   | HR                  |  | HS                  |       |
| HQ                  |  | HR                  |   |   |   |   |   | HS                  |  | HT                  |       |
| HR                  |  | HS                  |   |   |   |   |   | HT                  |  | HU                  |       |
| HS                  |  | HT                  |   |   |   |   |   | HU                  |  | HV                  |       |
| HT                  |  | HU                  |   |   |   |   |   | HV                  |  | HW                  |       |
| HU                  |  | HV                  |   |   |   |   |   | HW                  |  | HX                  |       |
| HV                  |  | HW                  |   |   |   |   |   | HX                  |  | HY                  |       |
| HW                  |  | HX                  |   |   |   |   |   | HY                  |  | HZ                  |       |
| HX                  |  | HY                  |   |   |   |   |   | HZ                  |  | IA                  |       |
| HY                  |  | HZ                  |   |   |   |   |   | IA                  |  | IB                  |       |
| HZ                  |  | IA                  |   |   |   |   |   | IB                  |  | IC                  |       |
| IA                  |  | IB                  |   |   |   |   |   | IC                  |  | ID                  |       |
| IB                  |  | IC                  |   |   |   |   |   | ID                  |  | IE                  |       |
| IC                  |  | ID                  |   |   |   |   |   | IE                  |  | IF                  |       |
| ID                  |  | IE                  |   |   |   |   |   | IF                  |  | IG                  |       |
| IE                  |  | IF                  |   |   |   |   |   | IG                  |  | IH                  |       |
| IF                  |  | IG                  |   |   |   |   |   | IH                  |  | II                  |       |
| IG                  |  | IH                  |   |   |   |   |   | II                  |  | IJ                  |       |
| IH                  |  | II                  |   |   |   |   |   | IJ                  |  | IK                  |       |
| II                  |  | IJ                  |   |   |   |   |   | IK                  |  | IL                  |       |
| IJ                  |  | IK                  |   |   |   |   |   | IL                  |  | IM                  |       |
| IK                  |  | IL                  |   |   |   |   |   | IM                  |  | IN                  |       |
| IL                  |  | IM                  |   |   |   |   |   | IN                  |  | IO                  |       |
| IM                  |  | IN                  |   |   |   |   |   | IO                  |  | IP                  |       |
| IN                  |  | IO                  |   |   |   |   |   | IP                  |  | IQ                  |       |
| IO                  |  | IP                  |   |   |   |   |   | IQ                  |  | IR                  |       |
| IP                  |  | IQ                  |   |   |   |   |   | IR                  |  | IS                  |       |
| IQ                  |  | IR                  |   |   |   |   |   | IS                  |  | IT                  |       |
| IR                  |  | IS                  |   |   |   |   |   | IT                  |  | IU                  |       |
| IS                  |  | IT                  |   |   |   |   |   | IU                  |  | IV                  |       |
| IT                  |  | IU                  |   |   |   |   |   | IV                  |  | IW                  |       |
| IU                  |  | IV                  |   |   |   |   |   | IW                  |  | IX                  |       |
| IV                  |  | IW                  |   |   |   |   |   | IX                  |  | IY                  |       |
| IW                  |  | IX                  |   |   |   |   |   | IY                  |  | IZ                  |       |
| IX                  |  | IY                  |   |   |   |   |   | IZ                  |  | JA                  |       |
| IY                  |  | IZ                  |   |   |   |   |   | JA                  |  | JB                  |       |
| IZ                  |  | JA                  |   |   |   |   |   | JB                  |  | JC                  |       |
| JA                  |  | JB                  |   |   |   |   |   | JC                  |  | JD                  |       |
| JB                  |  | JC                  |   |   |   |   |   | JD                  |  | JE                  |       |
| JC                  |  | JD                  |   |   |   |   |   | JE                  |  | JF                  |       |
| JD                  |  | JE                  |   |   |   |   |   | JF                  |  | JG                  |       |
| JE                  |  | JF                  |   |   |   |   |   | JG                  |  | JH                  |       |
| JF                  |  | JG                  |   |   |   |   |   | JH                  |  | JI                  |       |
| JG                  |  | JH                  |   |   |   |   |   | JI                  |  | JJ                  |       |
| JH                  |  | JI                  |   |   |   |   |   | JJ                  |  | JK                  |       |
| JI                  |  | JJ                  |   |   |   |   |   | JK                  |  | JL                  |       |
| JJ                  |  | JK                  |   |   |   |   |   | JL                  |  | JM                  |       |
| JK                  |  | JL                  |   |   |   |   |   | JM                  |  | JN                  |       |
| JL                  |  | JM                  |   |   |   |   |   | JN                  |  | JO                  |       |
| JM                  |  | JN                  |   |   |   |   |   | JO                  |  | JP                  |       |
| JN                  |  | JO                  |   |   |   |   |   | JP                  |  | JQ                  |       |
| JO                  |  | JP                  |   |   |   |   |   | JQ                  |  | JR                  |       |
| JP                  |  | JQ                  |   |   |   |   |   | JR                  |  | JS                  |       |
| JQ                  |  | JR                  |   |   |   |   |   | JS                  |  | JT                  |       |
| JR                  |  | JS                  |   |   |   |   |   | JT                  |  | JU                  |       |
| JS                  |  | JT                  |   |   |   |   |   | JU                  |  | JV                  |       |
| JT                  |  | JU                  |   |   |   |   |   | JV                  |  | JW                  |       |
| JU                  |  | JV                  |   |   |   |   |   | JW                  |  | JX                  |       |
| JV                  |  | JW                  |   |   |   |   |   | JX                  |  | JY                  |       |
| JW                  |  | JX                  |   |   |   |   |   | JY                  |  | JZ                  |       |
| JX                  |  | JY                  |   |   |   |   |   | JZ                  |  | KA                  |       |
| JY                  |  | JZ                  |   |   |   |   |   | KA                  |  | KB                  |       |
| JZ                  |  | KA                  |   |   |   |   |   | KB                  |  | KC                  |       |
| KA                  |  | KB                  |   |   |   |   |   | KC                  |  | KD                  |       |
| KB                  |  |                     |   |   |   |   |   |                     |  |                     |       |