

|       |                                             |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    |    |
|-------|---------------------------------------------|---------------------------------------------|----------------|--------------------|-------------------------------------------|--------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------|----------|-------------------------------------------------------------------------------------------------------------------------|----------|--------|----|----|
|       | 1                                           | 2                                           | 3              | 4                  | 5                                         | 6                                                      | 7                                   | 8                                                                                                                         | 9        | 10       | 11                                                                                                                      | 12       | 13     | 14 |    |
| A     | Art.-Nr. /<br>Item No.                      | Beschreibung / Description                  |                | Länge / Length (L) | Kontaktwiderstand /<br>Contact resistance | Max. Übertragungsrate /<br>Max. data transmission rate | AD Kabelmantel /<br>OD cable jacket | Kabeldurchmesser /<br>Cable diameter                                                                                      |          |          | Pin-Belegung / Pin Assignment                                                                                           |          |        |    | A  |
| B     | 61299                                       | HDMI 2.0 Kabel Ferrite 0100 1,0m (15+1) sw  |                | 1000 ± 20 mm       | 5 Ω max.                                  | 18 Gbit/s                                              | 5.5 ± 0.2 mm                        | 30AWG (1/0.254CCS) * 1P + AL) * 4P +<br>(1/0.254CCS) * 1P + E + AM) * 1P +<br>30# (1/0.254CCS) * 4C + D (1/.0254CCS) + AL |          |          | CN1                                                                                                                     |          | CN2    |    | B  |
|       | 61300                                       | HDMI 2.0 Kabel Ferrite 0150 1,5m (15+1) sw  |                | 1500 ± 30 mm       | 5 Ω max.                                  | 18 Gbit/s                                              | 5.5 ± 0.2 mm                        |                                                                                                                           |          |          | 1<br>3                                                                                                                  |          | 1<br>3 |    |    |
|       | 61301                                       | HDMI 2.0 Kabel Ferrite 0200 2,0m (15+1) sw  |                | 2000 ± 30 mm       | 5 Ω max.                                  | 18 Gbit/s                                              | 5.5 ± 0.2 mm                        |                                                                                                                           |          |          | 4<br>6                                                                                                                  |          | 4<br>6 |    |    |
|       | 61302                                       | HDMI 2.0 Kabel Ferrite 0300 3,0m (15+1) sw  |                | 3000 ± 50 mm       | 10 Ω max.                                 | 18 Gbit/s                                              | 5.5 ± 0.2 mm                        |                                                                                                                           |          |          | 7<br>9                                                                                                                  |          | 7<br>9 |    |    |
|       | 61303                                       | HDMI 2.0 Kabel Ferrite 0500 5,0m (15+1) sw  |                | 5000 ± 100 mm      | 10 Ω max.                                 | 10.2 Gbit/s                                            | 5.5 ± 0.2 mm                        | 10<br>12                                                                                                                  |          | 10<br>12 |                                                                                                                         | 14<br>19 |        | C  |    |
| 61304 | HDMI 2.0 Kabel Ferrite 1000 10,0m (15+1) sw |                                             | 10000 ± 200 mm | 20 Ω max.          | 10.2 Gbit/s                               | 5.5 ± 0.2 mm                                           | 18<br>16                            |                                                                                                                           | 18<br>16 |          | 17<br>13                                                                                                                |          |        |    |    |
| C     | 61305                                       | HDMI 2.0 Kabel Ferrite 1500 15,0m (15+1) sw |                | 15000 ± 300 mm     | 30 Ω max.                                 | 10.2 Gbit/s                                            | 7 ± 0.2 mm                          | 26AWG (1/0.40CCS) * 1P+AM) * 4P +<br>(1/0.40CCS) * 1P + E + AM) * 1P +<br>30# (1/0.254CCS) + 4C + D (1.0/0.254CCS) + AL   |          |          | 26AWG (1/0.40CCS) * 1P+AM) * 4P +<br>(1/0.40CCS) * 1P + E + AM) * 1P +<br>30# (1/0.254CCS) + 4C + D (1.0/0.254CCS) + AL |          | SHELL  |    | D  |
| D     | <br>E                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | E  |    |
| E     | <br>F                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | F  |
| F     | <br>G                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | G  |    |
| G     | <br>H                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | H  |
| H     | <br>I                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | I  |    |
| I     | <br>J                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | J  |
| J     | <br>K                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | K  |    |
| K     | <br>L                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | L  |
| L     | <br>M                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | M  |    |
| M     | <br>N                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | N  |
| N     | <br>O                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | O  |    |
| O     | <br>P                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | P  |
| P     | <br>Q                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | Q  |    |
| Q     | <br>R                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | R  |
| R     | <br>S                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | S  |    |
| S     | <br>T                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | T  |
| T     | <br>U                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | U  |    |
| U     | <br>V                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | V  |
| V     | <br>W                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | W  |    |
| W     | <br>X                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | X  |
| X     | <br>Y                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | Y  |    |
| Y     | <br>Z                                       |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | Z  |
| Z     | <br>AA                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AA |    |
| AA    | <br>AB                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AB |
| AB    | <br>AC                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AC |    |
| AC    | <br>AD                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AD |
| AD    | <br>AE                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AE |    |
| AE    | <br>AF                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AF |
| AF    | <br>AG                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AG |    |
| AG    | <br>AH                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AH |
| AH    | <br>AI                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AI |    |
| AI    | <br>AJ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AJ |
| AJ    | <br>AK                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AK |    |
| AK    | <br>AL                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AL |
| AL    | <br>AM                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AM |    |
| AM    | <br>AN                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AN |
| AN    | <br>AO                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AO |    |
| AO    | <br>AP                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AP |
| AP    | <br>AQ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AQ |    |
| AQ    | <br>AR                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AR |
| AR    | <br>AS                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AS |    |
| AS    | <br>AT                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AT |
| AT    | <br>AU                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AU |    |
| AU    | <br>AV                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AV |
| AV    | <br>AW                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AW |    |
| AW    | <br>AX                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AX |
| AX    | <br>AY                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | AY |    |
| AY    | <br>AZ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | AZ |
| AZ    | <br>BA                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BA |    |
| BA    | <br>BB                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BB |
| BB    | <br>BC                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BC |    |
| BC    | <br>BD                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BD |
| BD    | <br>BE                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BE |    |
| BE    | <br>BF                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BF |
| BF    | <br>BG                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BG |    |
| BG    | <br>BH                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BH |
| BH    | <br>BI                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BI |    |
| BI    | <br>BJ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BJ |
| BJ    | <br>BK                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BK |    |
| BK    | <br>BL                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BL |
| BL    | <br>BM                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BM |    |
| BM    | <br>BN                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BN |
| BN    | <br>BO                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BO |    |
| BO    | <br>BP                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BP |
| BP    | <br>BQ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BQ |    |
| BQ    | <br>BR                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BR |
| BR    | <br>BS                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BS |    |
| BS    | <br>BT                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BT |
| BT    | <br>BU                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BU |    |
| BU    | <br>BV                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BV |
| BV    | <br>BW                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BW |    |
| BW    | <br>BX                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BX |
| BX    | <br>BY                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | BY |    |
| BY    | <br>BZ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | BZ |
| BZ    | <br>CA                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CA |    |
| CA    | <br>CB                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CB |
| CB    | <br>CC                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CC |    |
| CC    | <br>CD                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CD |
| CD    | <br>CE                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CE |    |
| CE    | <br>CF                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CF |
| CF    | <br>CG                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CG |    |
| CG    | <br>CH                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CH |
| CH    | <br>CI                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CI |    |
| CI    | <br>CJ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CJ |
| CJ    | <br>CK                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CK |    |
| CK    | <br>CL                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CL |
| CL    | <br>CM                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CM |    |
| CM    | <br>CN                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CN |
| CN    | <br>CO                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CO |    |
| CO    | <br>CP                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CP |
| CP    | <br>CQ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CQ |    |
| CQ    | <br>CR                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CR |
| CR    | <br>CS                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CS |    |
| CS    | <br>CT                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CT |
| CT    | <br>CU                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CU |    |
| CU    | <br>CV                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CV |
| CV    | <br>CW                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CW |    |
| CW    | <br>CX                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CX |
| CX    | <br>CY                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | CY |    |
| CY    | <br>CZ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | CZ |
| CZ    | <br>DA                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DA |    |
| DA    | <br>DB                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DB |
| DB    | <br>DC                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DC |    |
| DC    | <br>DD                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DD |
| DD    | <br>DE                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DE |    |
| DE    | <br>DF                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DF |
| DF    | <br>DG                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DG |    |
| DG    | <br>DH                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DH |
| DH    | <br>DI                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DI |    |
| DI    | <br>DJ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DJ |
| DJ    | <br>DK                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DK |    |
| DK    | <br>DL                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DL |
| DL    | <br>DM                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DM |    |
| DM    | <br>DN                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DN |
| DN    | <br>DO                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DO |    |
| DO    | <br>DP                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DP |
| DP    | <br>DQ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DQ |    |
| DQ    | <br>DR                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DR |
| DR    | <br>DS                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DS |    |
| DS    | <br>DT                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DT |
| DT    | <br>DU                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DU |    |
| DU    | <br>DV                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DV |
| DV    | <br>DW                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DW |    |
| DW    | <br>DX                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DX |
| DX    | <br>DY                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | DY |    |
| DY    | <br>DZ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | DZ |
| DZ    | <br>EA                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EA |    |
| EA    | <br>EB                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EB |
| EB    | <br>EC                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EC |    |
| EC    | <br>ED                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | ED |
| ED    | <br>EE                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EE |    |
| EE    | <br>EF                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EF |
| EF    | <br>EG                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EG |    |
| EG    | <br>EH                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EH |
| EH    | <br>EI                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EI |    |
| EI    | <br>EJ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EJ |
| EJ    | <br>EK                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EK |    |
| EK    | <br>EL                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EL |
| EL    | <br>EM                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EM |    |
| EM    | <br>EN                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EN |
| EN    | <br>EO                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EO |    |
| EO    | <br>EP                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EP |
| EP    | <br>EQ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EQ |    |
| EQ    | <br>ER                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | ER |
| ER    | <br>ES                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | ES |    |
| ES    | <br>ET                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | ET |
| ET    | <br>EU                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EU |    |
| EU    | <br>EV                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EV |
| EV    | <br>EW                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EW |    |
| EW    | <br>EX                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EX |
| EX    | <br>EY                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | EY |    |
| EY    | <br>EZ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | EZ |
| EZ    | <br>FA                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FA |    |
| FA    | <br>FB                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FB |
| FB    | <br>FC                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FC |    |
| FC    | <br>FD                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FD |
| FD    | <br>FE                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FE |    |
| FE    | <br>FF                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FF |
| FF    | <br>FG                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FG |    |
| FG    | <br>FH                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FH |
| FH    | <br>FI                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FI |    |
| FI    | <br>FJ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FJ |
| FJ    | <br>FK                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FK |    |
| FK    | <br>FL                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FL |
| FL    | <br>FM                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FM |    |
| FM    | <br>FN                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FN |
| FN    | <br>FO                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FO |    |
| FO    | <br>FP                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FP |
| FP    | <br>FQ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FQ |    |
| FQ    | <br>FR                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FR |
| FR    | <br>FS                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FS |    |
| FS    | <br>FT                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FT |
| FT    | <br>FU                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FU |    |
| FU    | <br>FV                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FV |
| FV    | <br>FW                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FW |    |
| FW    | <br>FX                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FX |
| FX    | <br>FY                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | FY |    |
| FY    | <br>FZ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | FZ |
| FZ    | <br>GA                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GA |    |
| GA    | <br>GB                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | GB |
| GB    | <br>GC                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GC |    |
| GC    | <br>GD                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | GD |
| GD    | <br>GE                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GE |    |
| GE    | <br>GF                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | GF |
| GF    | <br>GG                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GG |    |
| GG    | <br>GH                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | GH |
| GH    | <br>GI                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GI |    |
| GI    | <br>GJ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | GJ |
| GJ    | <br>GK                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GK |    |
| GK    | <br>GL                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | GL |
| GL    | <br>GM                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GM |    |
| GM    | <br>GN                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | GN |
| GN    | <br>GO                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GO |    |
| GO    | <br>GP                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    | GP |
| GP    | <br>GQ                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        | GQ |    |
| GQ    | <br>GR                                      |                                             |                |                    |                                           |                                                        |                                     |                                                                                                                           |          |          |                                                                                                                         |          |        |    |    |